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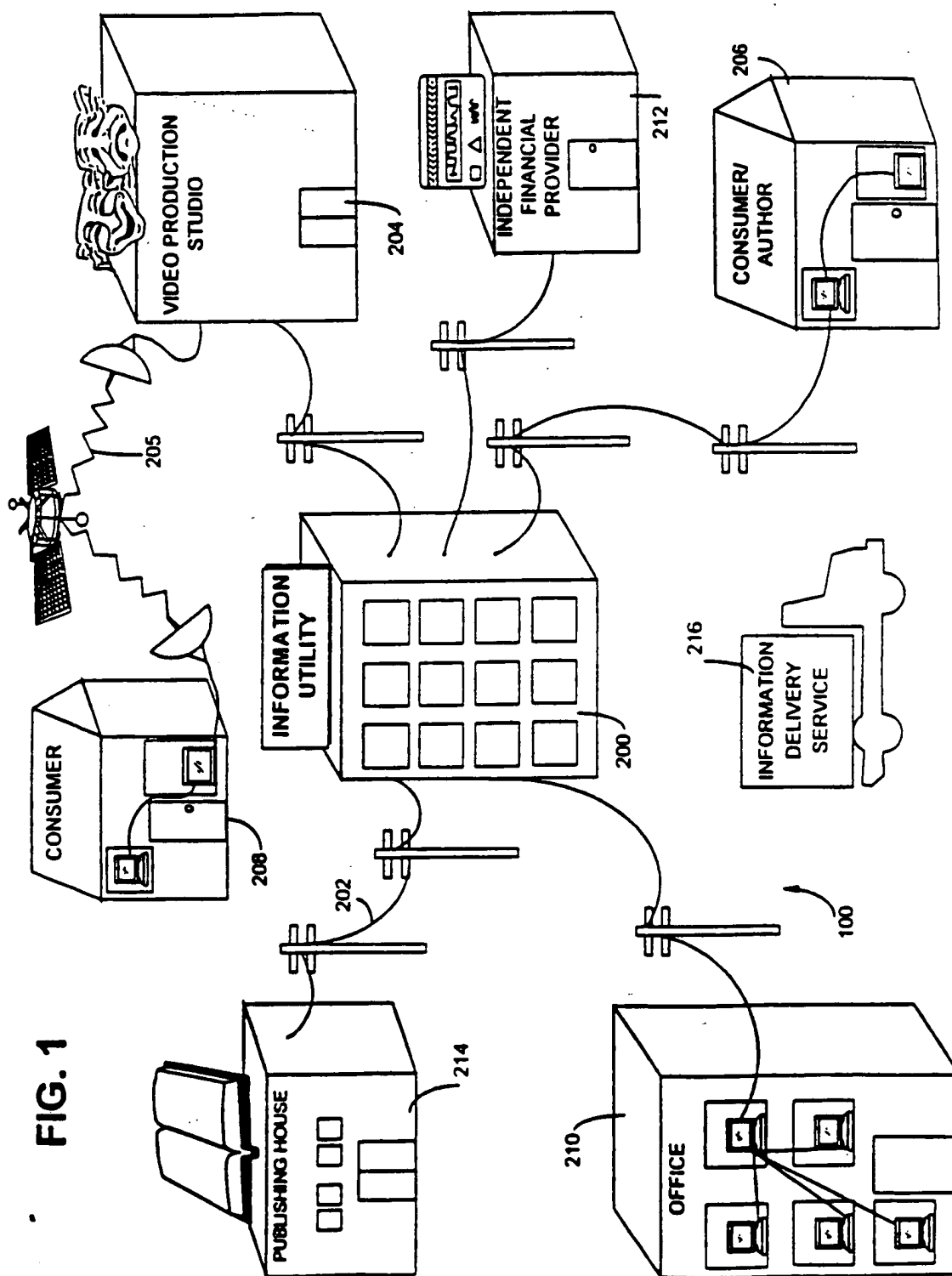
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FIG. 1

The diagram illustrates a network system 100. At the top left is a **PUBLISHING HOUSE** (214) with a satellite dish. Below it is an **OFFICE** (210) containing several computer workstations. To the right of the Publishing House is an **INFORMATION UTILITY** (200), depicted as a building with a grid of windows. Further right is a **CONSUMER** (208) with a computer. At the top right is a **VIDEO PRODUCTION STUDIO** (204) with a satellite dish. Below the studio is an **INDEPENDENT FINANCIAL PROVIDER** (212) with a computer. At the bottom right is a **CONSUMER/AUTHOR** (206) with a computer. A **SATELLITE** (205) is shown in the upper left. The system is interconnected: the Office (210) connects to the Publishing House (214) and the Information Utility (200). The Information Utility (200) connects to the Consumer (208), the Video Production Studio (204), and the Independent Financial Provider (212). The Consumer (208) connects to the Information Utility (200) and the Consumer/Author (206). The Video Production Studio (204) connects to the Information Utility (200) and the Independent Financial Provider (212). The Independent Financial Provider (212) connects to the Information Utility (200) and the Consumer/Author (206). The Consumer/Author (206) connects to the Information Utility (200). A satellite (205) is shown communicating with the Video Production Studio (204) and the Consumer (208). The entire system is labeled 100.



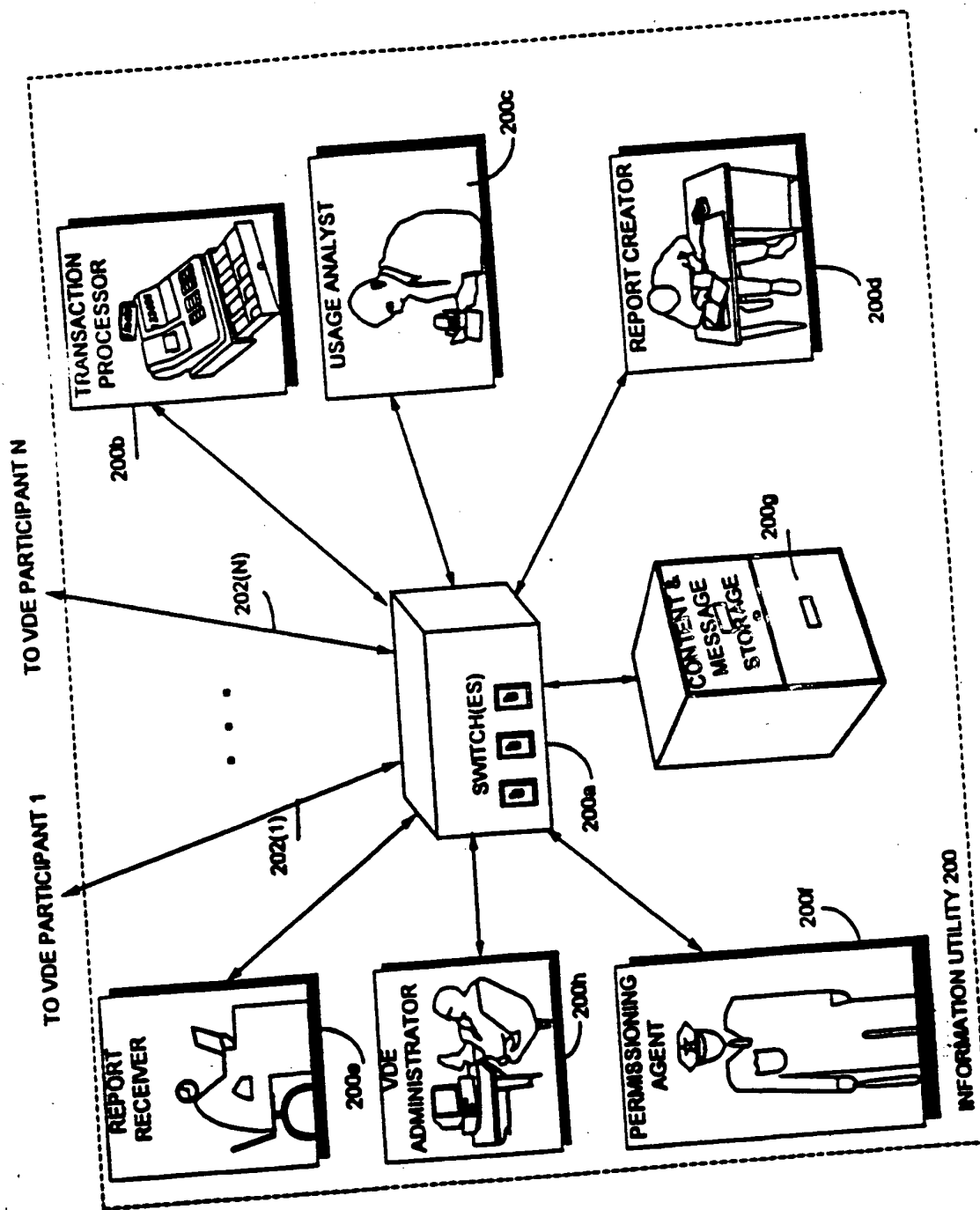


FIG. 1A

FIG. 2

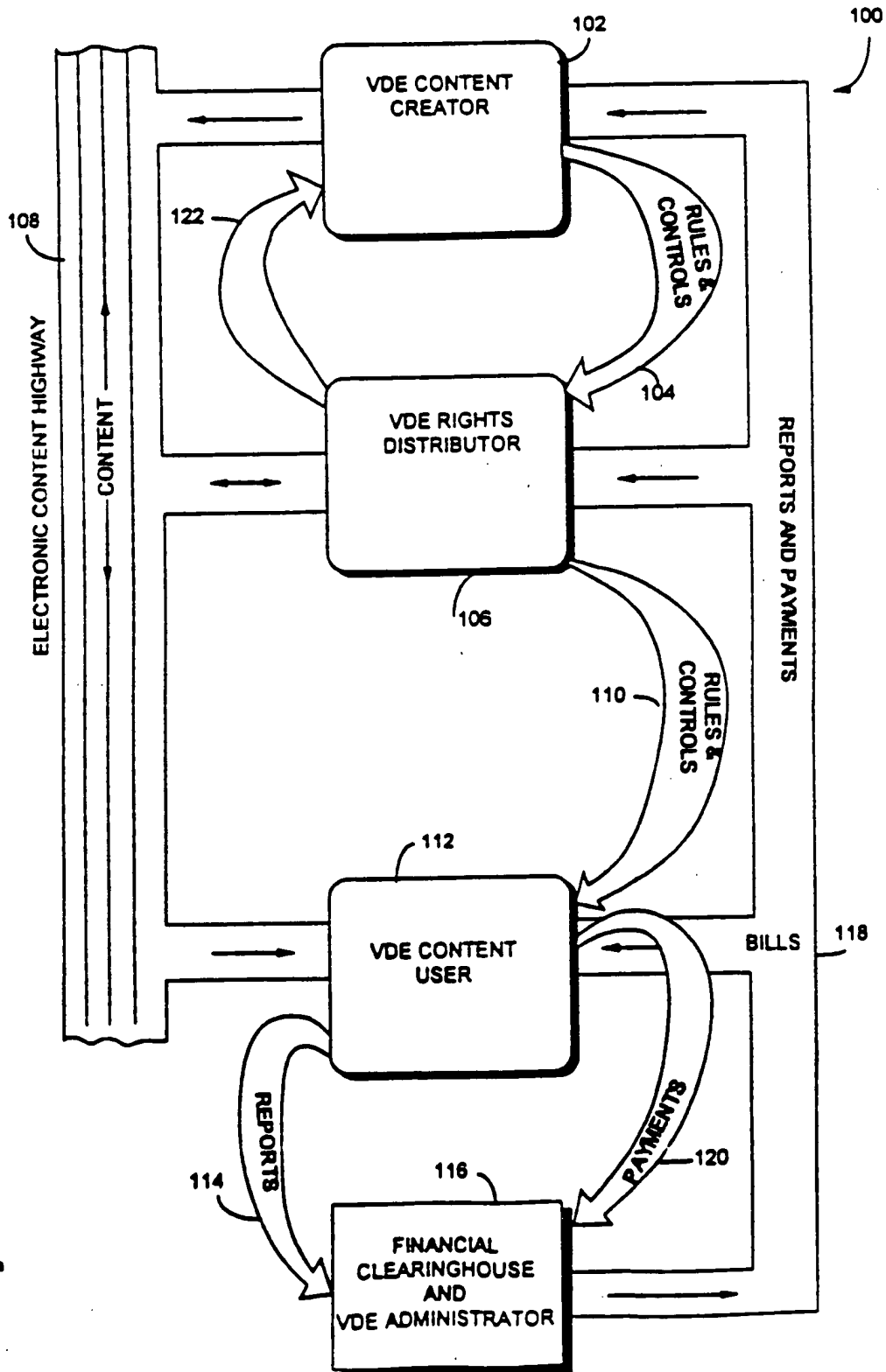


FIG. 2A

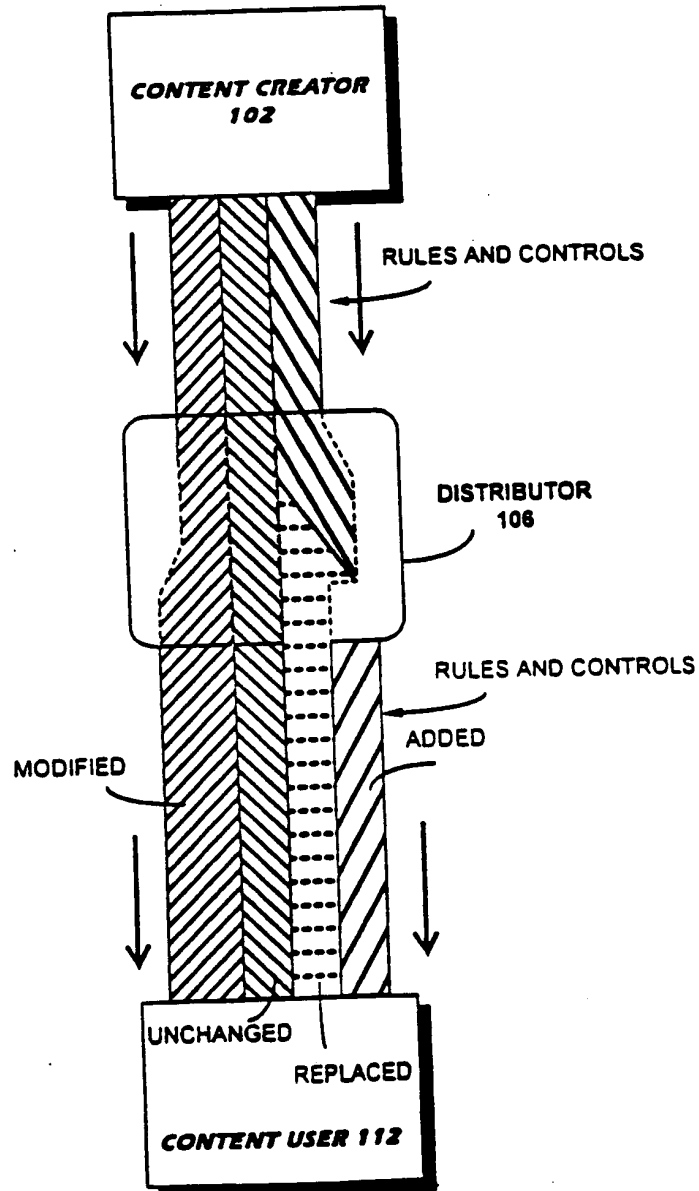
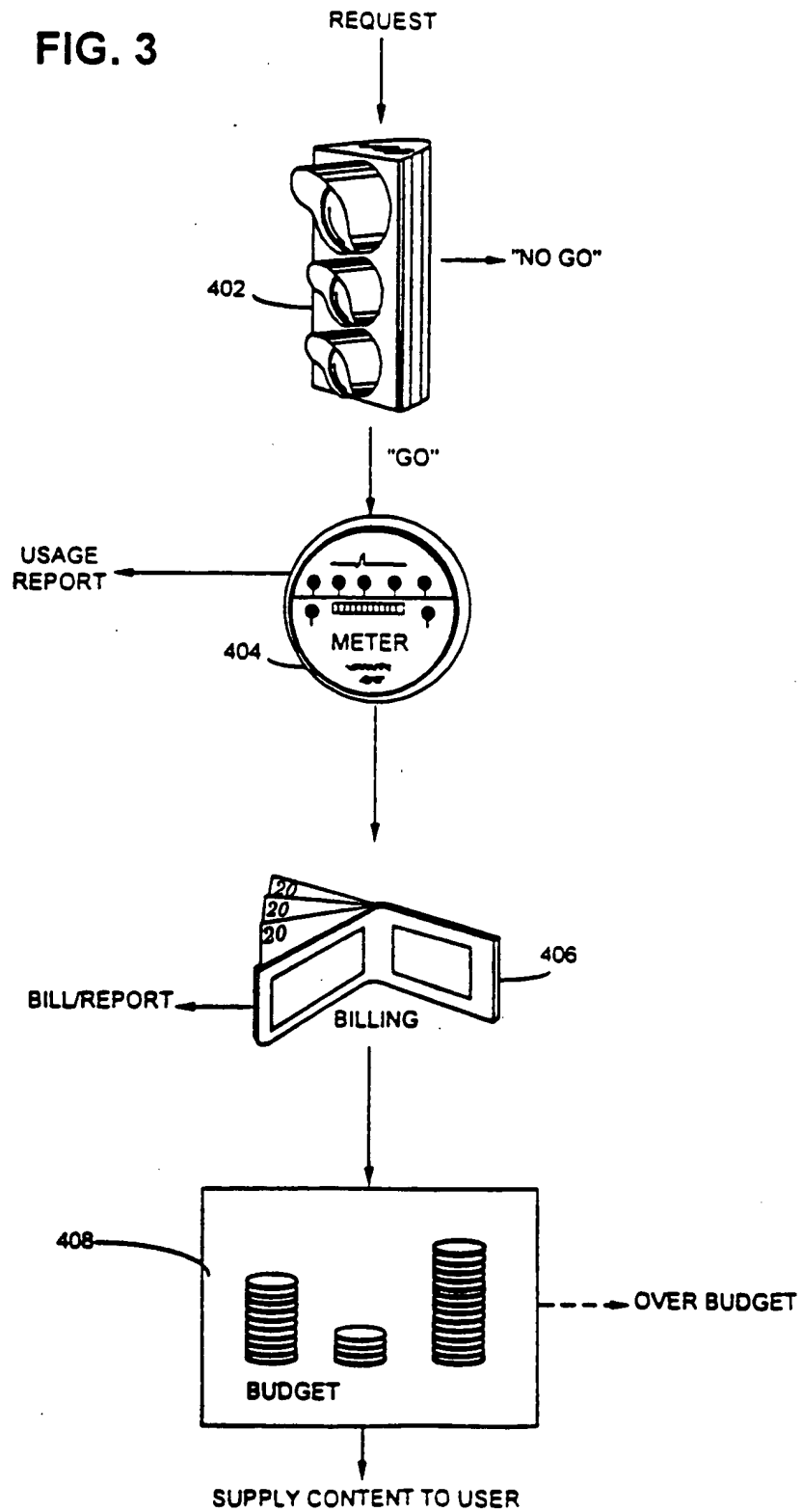


FIG. 3



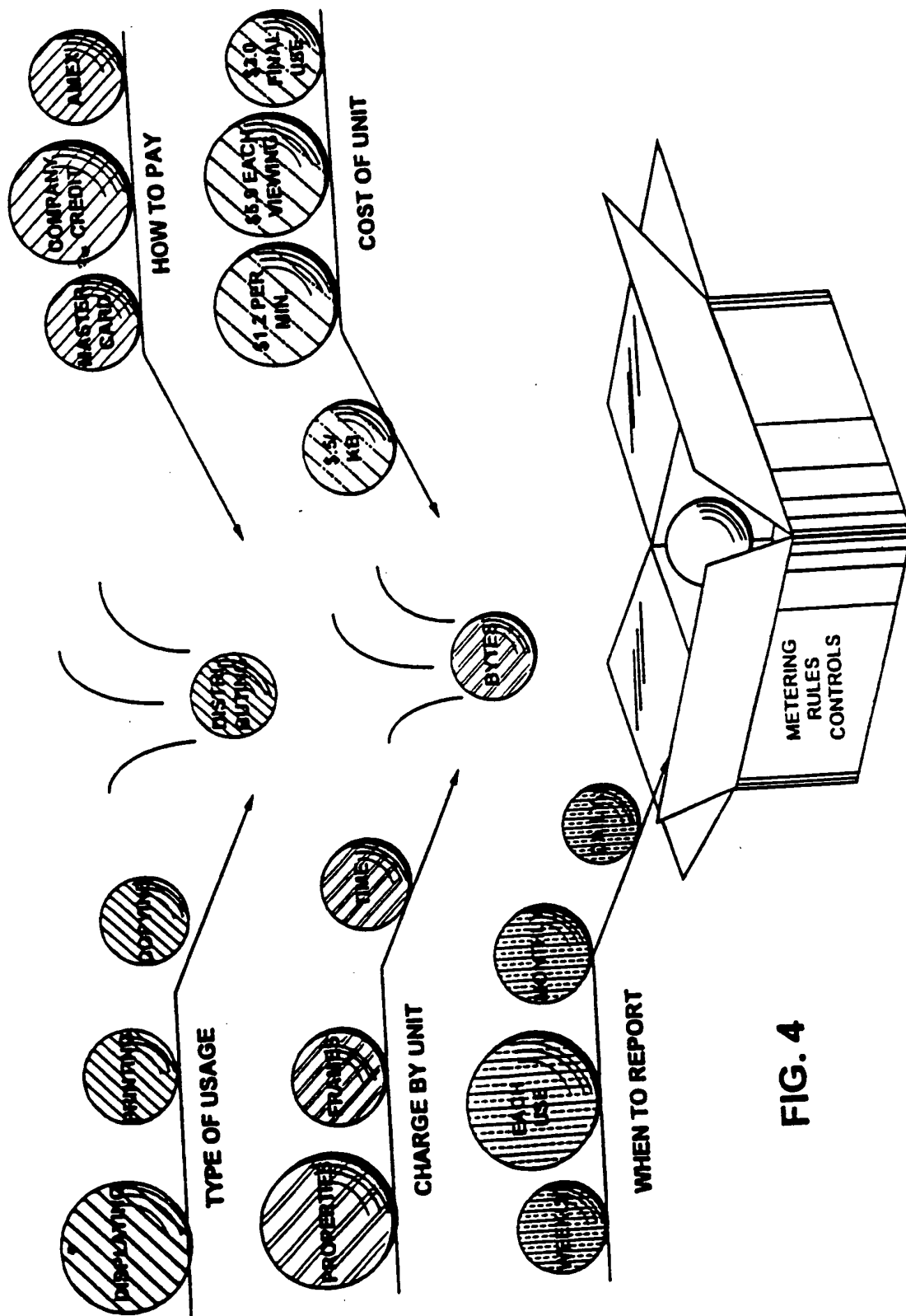


FIG. 4

FIG. 5A

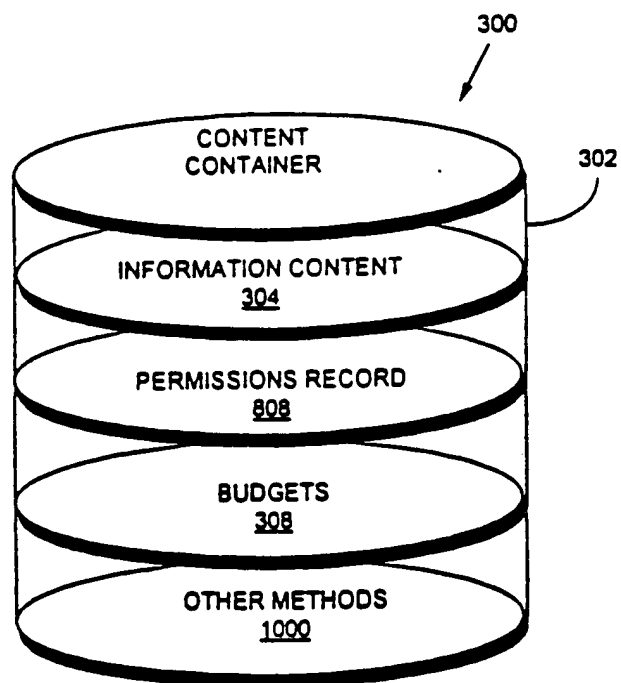


FIG. 5B

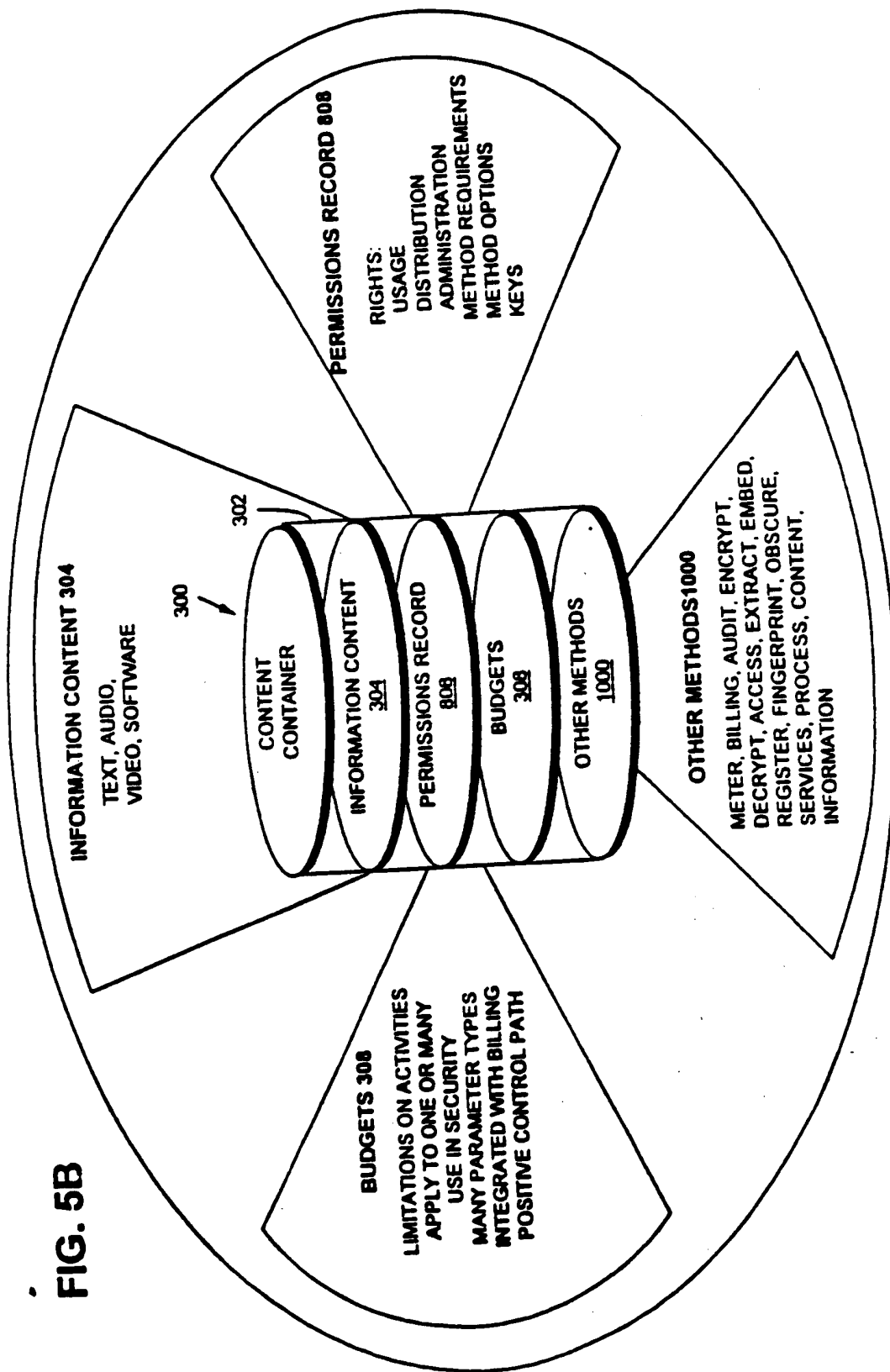
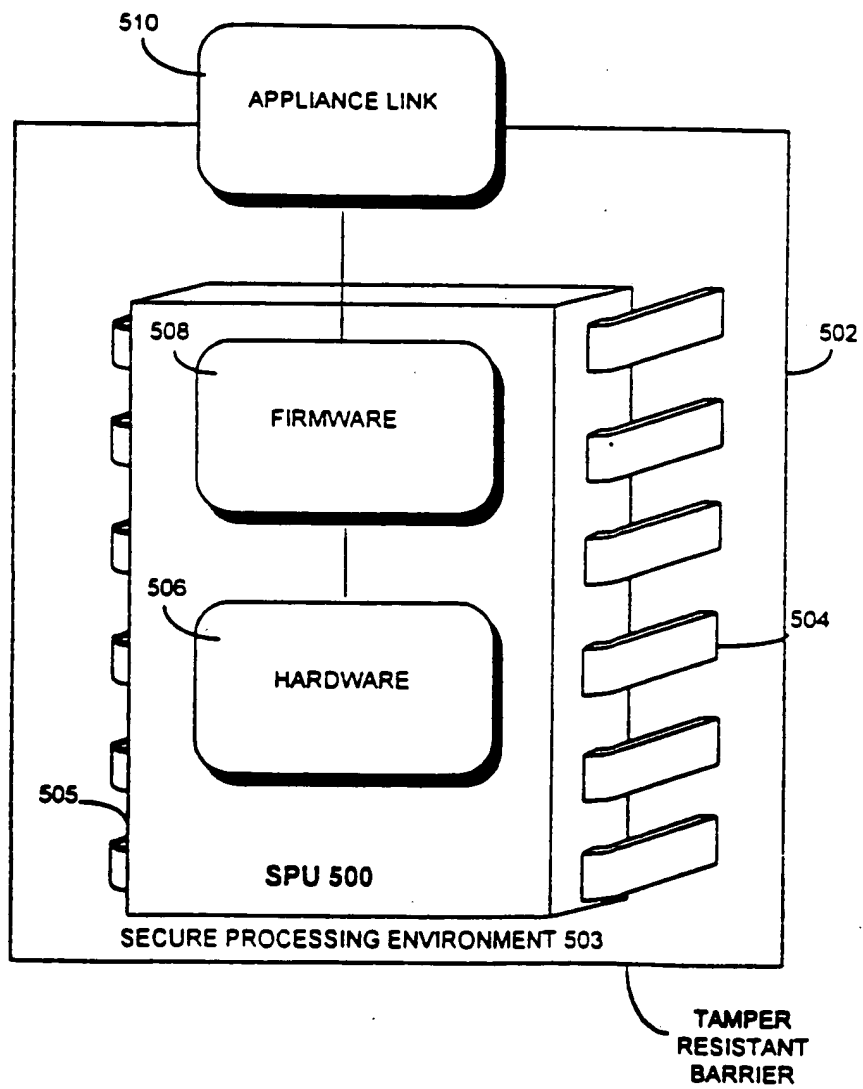


FIG. 6



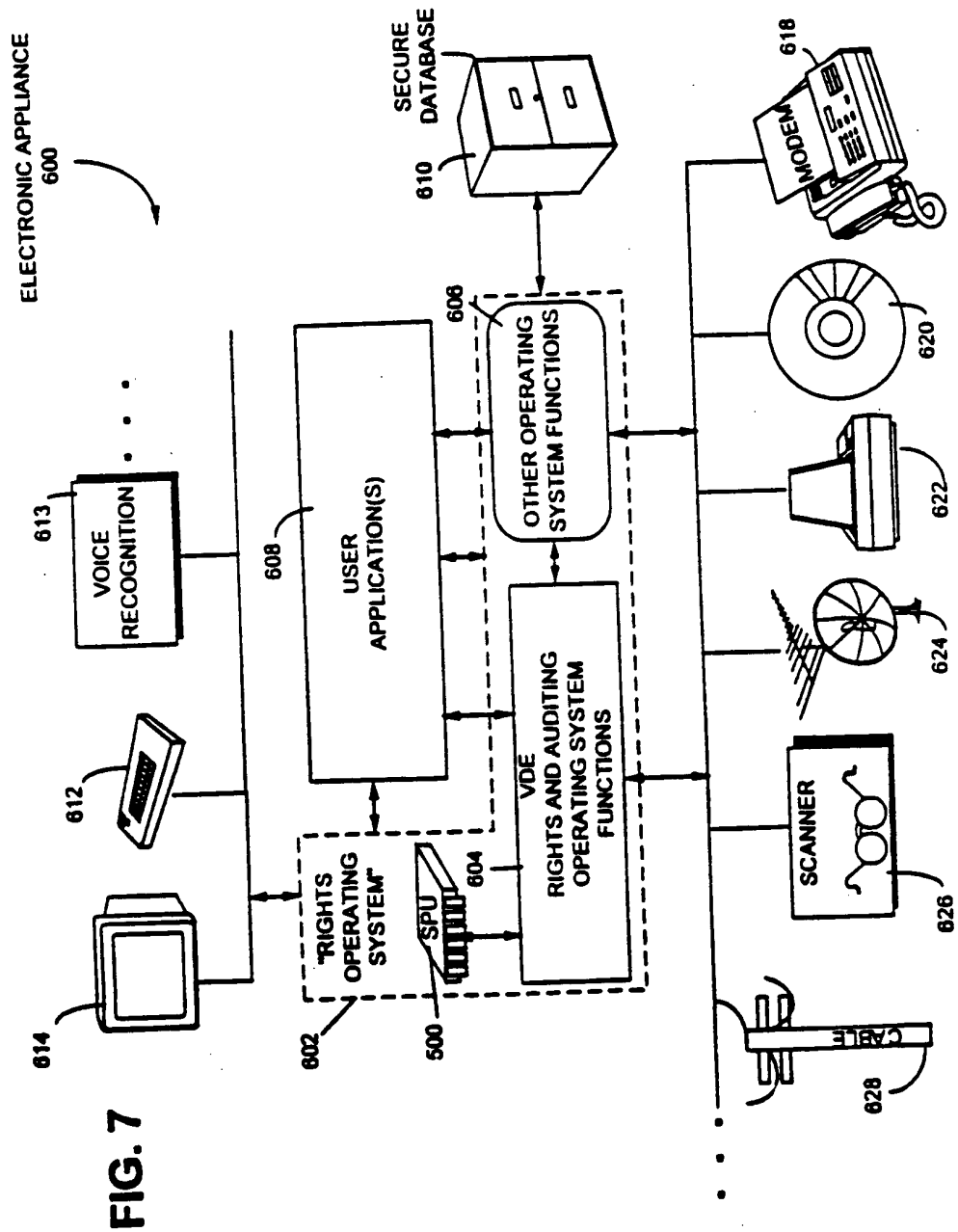
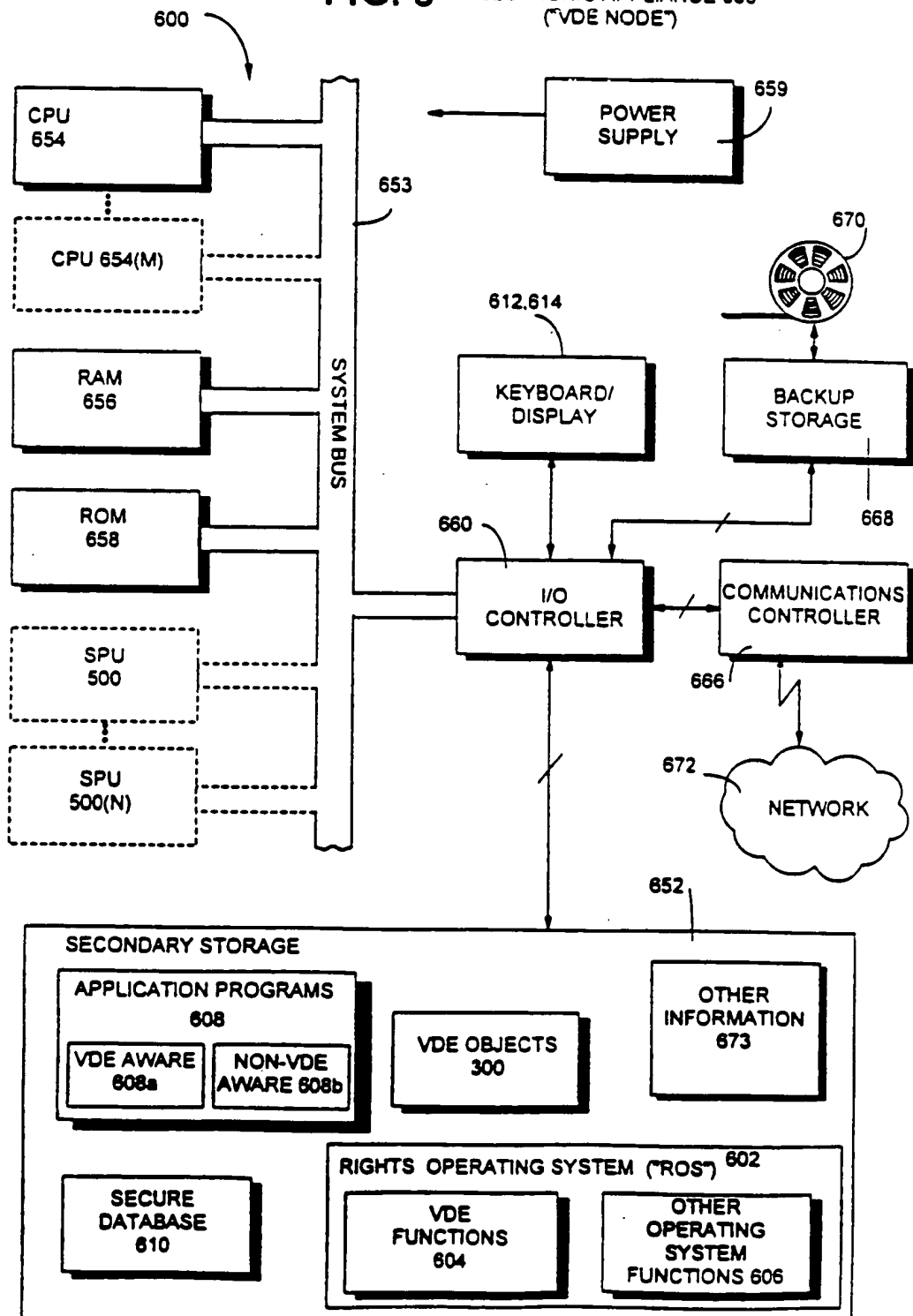


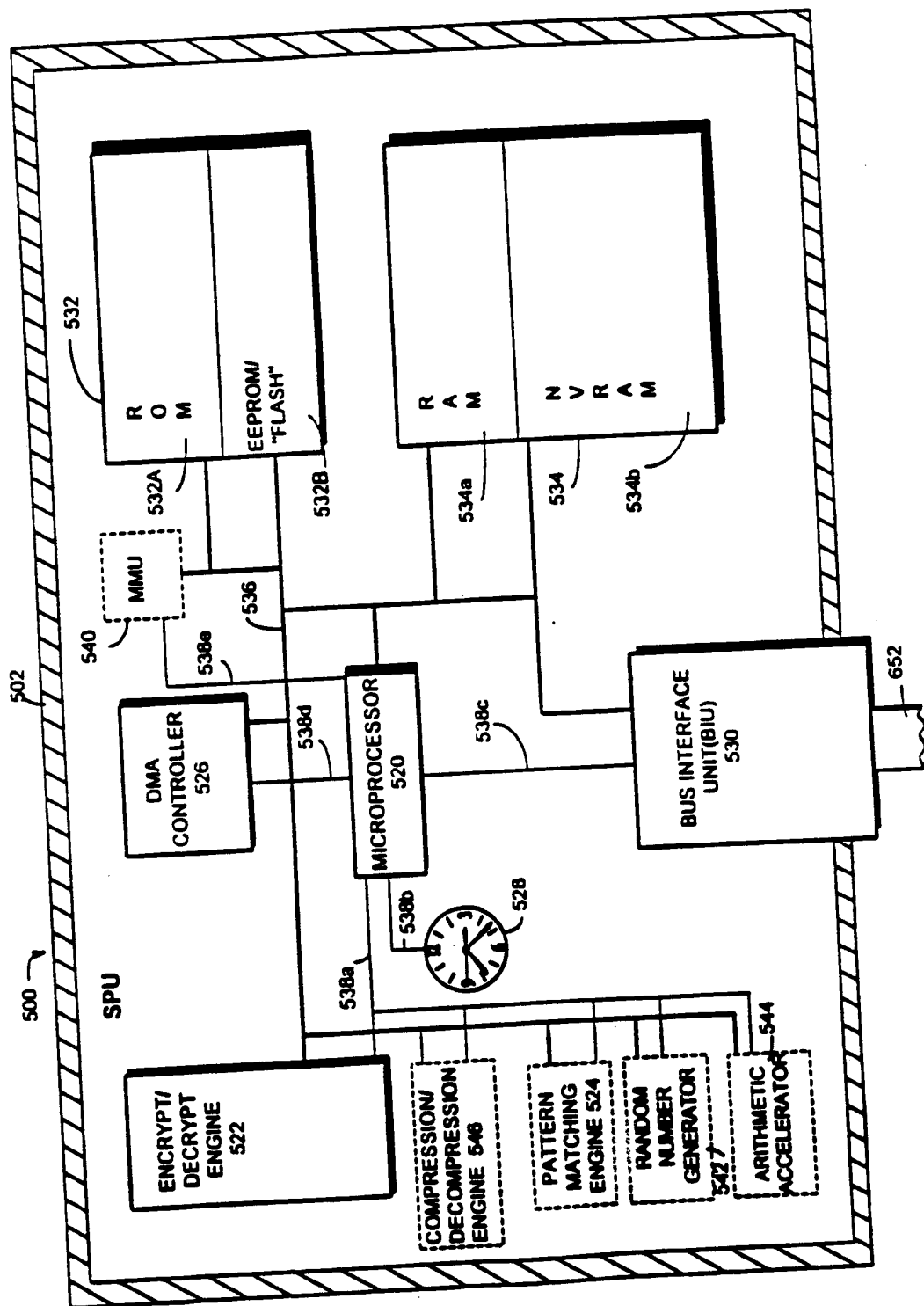
FIG. 7

FIG. 8 ELECTRONIC APPLIANCE 600
("VDE NODE")



The diagram illustrates the internal architecture of a Security Processor Unit (SPU). The SPU is enclosed in a hatched border and contains the following components and connections:

- Microprocessor 520:** The central processing unit, connected to various components via a system bus.
- Memory 532:** Consists of ROM (532A) and EEPROM/FLASH (532B) memory.
- RAM 534:** Random Access Memory, divided into RAM (534a) and NVRAM (534b).
- MMU 540:** Memory Management Unit, shown in a dashed box, connected to the memory and microprocessor.
- DMA Controller 526:** Direct Memory Access controller, connected to the microprocessor and memory.
- Encrypt/Decrypt Engine 522:** A dedicated engine for cryptographic operations.
- Compression/Decompression Engine 546:** A dedicated engine for data compression and decompression.
- Pattern Matching Engine 524:** A dedicated engine for pattern matching, shown in a dashed box.
- Random Number Generator 527:** A dedicated engine for generating random numbers, shown in a dashed box.
- Arithmetic Accelerator 544:** A dedicated engine for accelerating arithmetic operations, shown in a dashed box.
- Bus Interface Unit (BIU) 530:** The interface for the SPU to connect to the external system bus 652.
- 500:** A label for the SPU boundary.
- 502:** A label for the system bus.
- 528:** A clock signal, represented by a clock icon, connected to the microprocessor.
- 538a, 538b, 538c, 538d, 538e:** Various internal bus lines connecting the components.



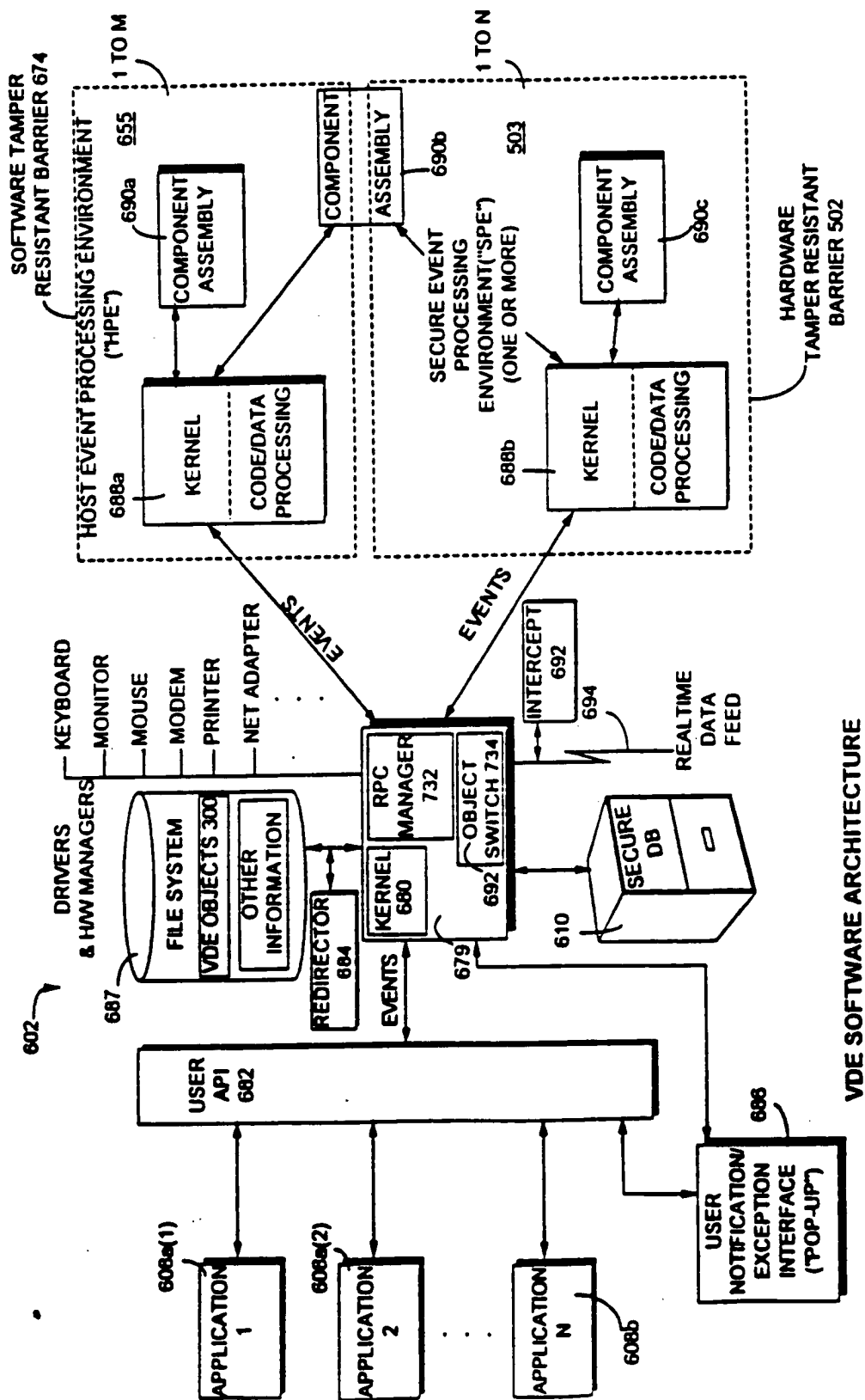


FIG. 10

FIG. 11C

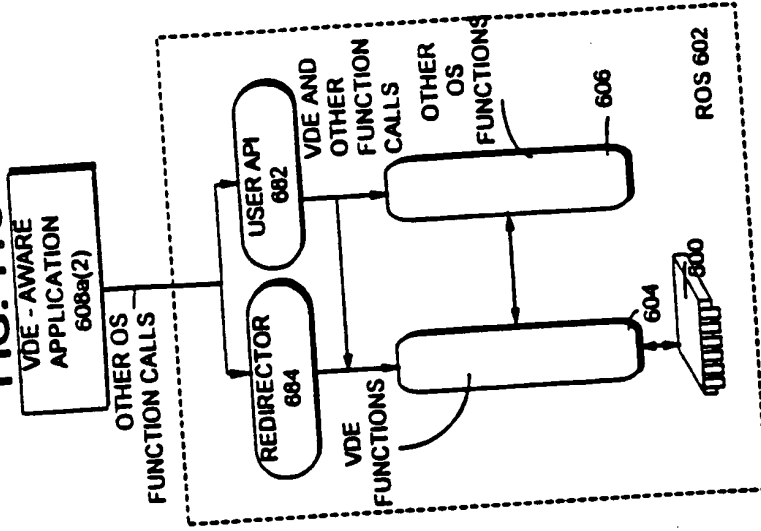


FIG. 11B

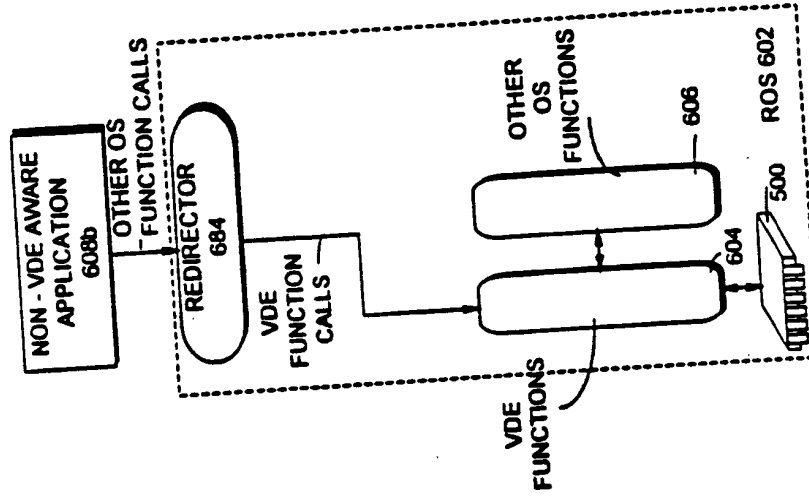
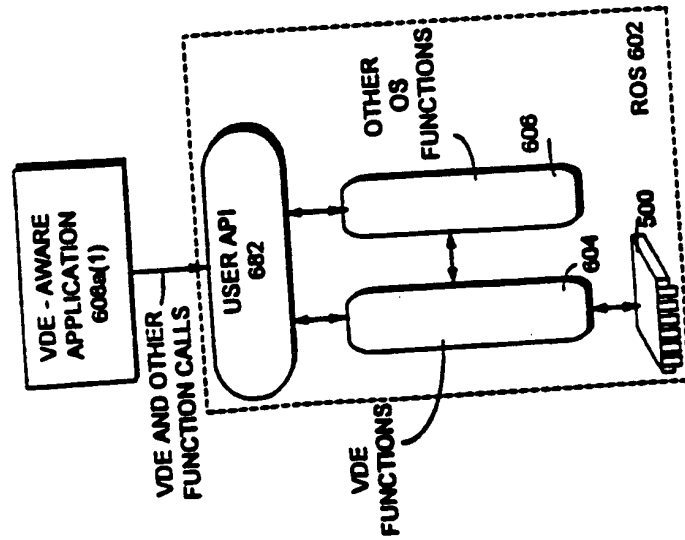
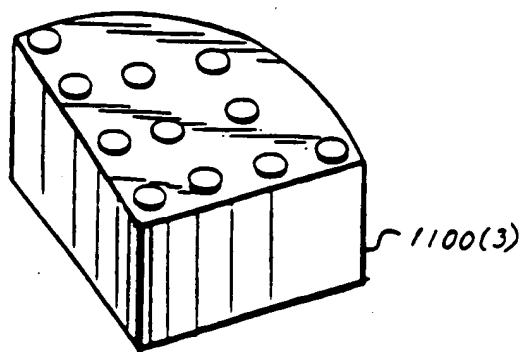
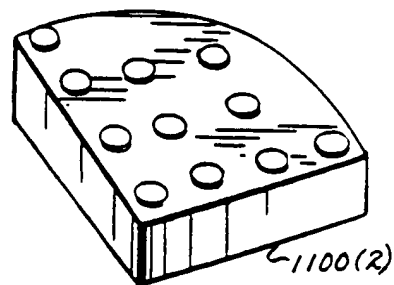
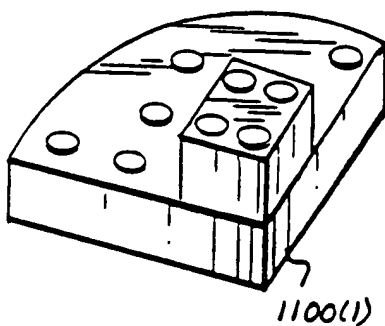
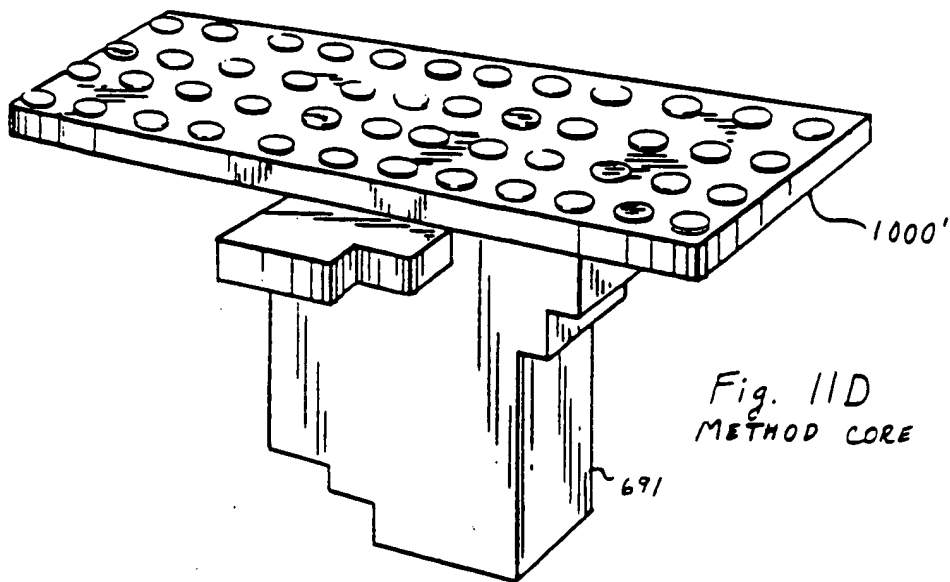


FIG. 11A





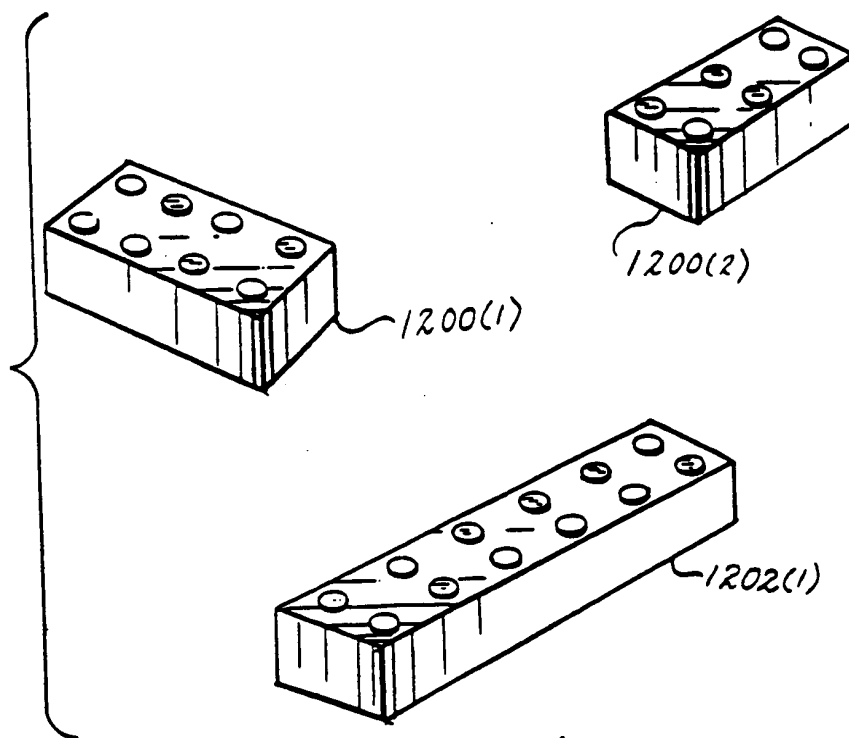
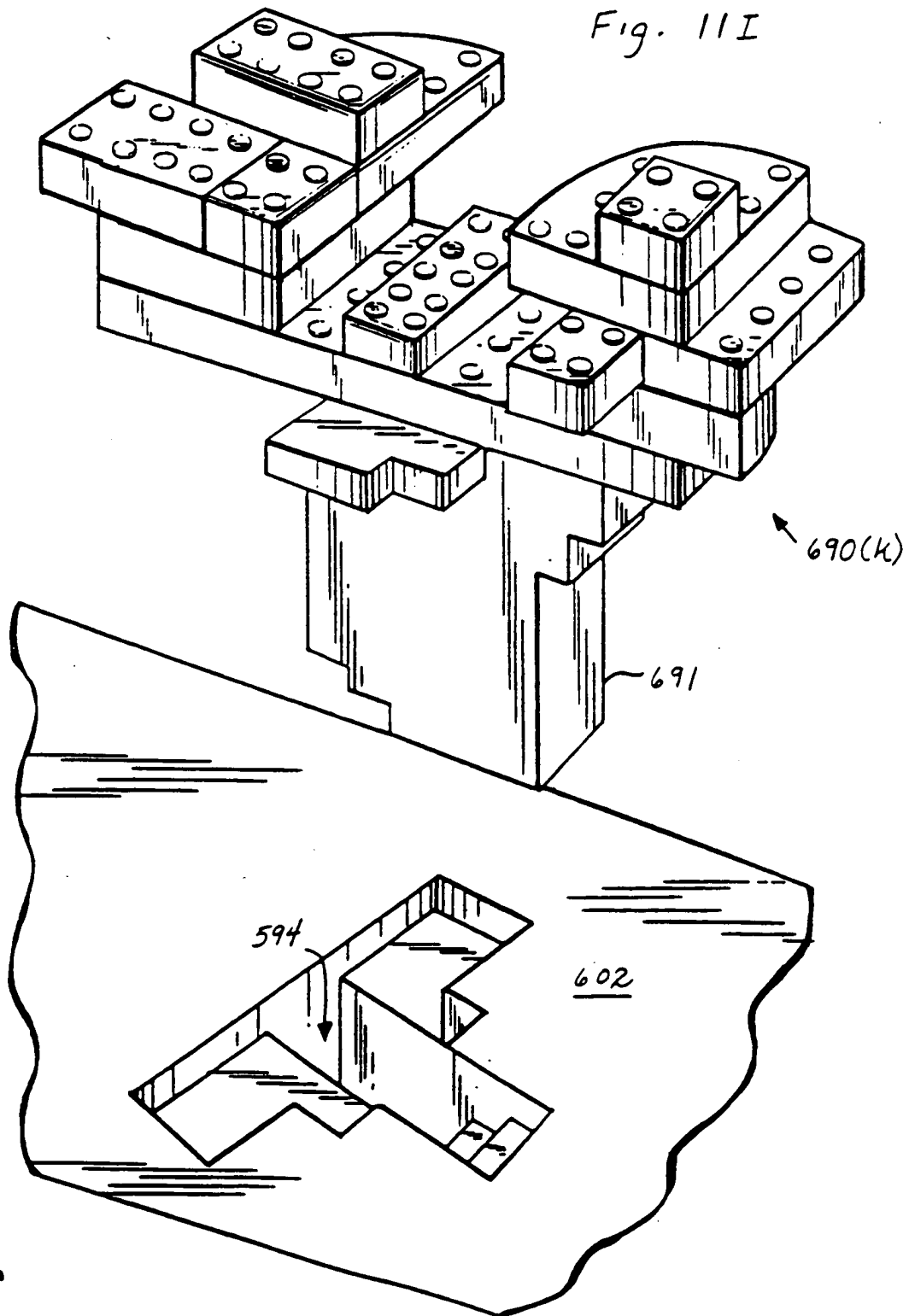


Fig. 11H.
DATA STRUCTURES

Fig. 11I



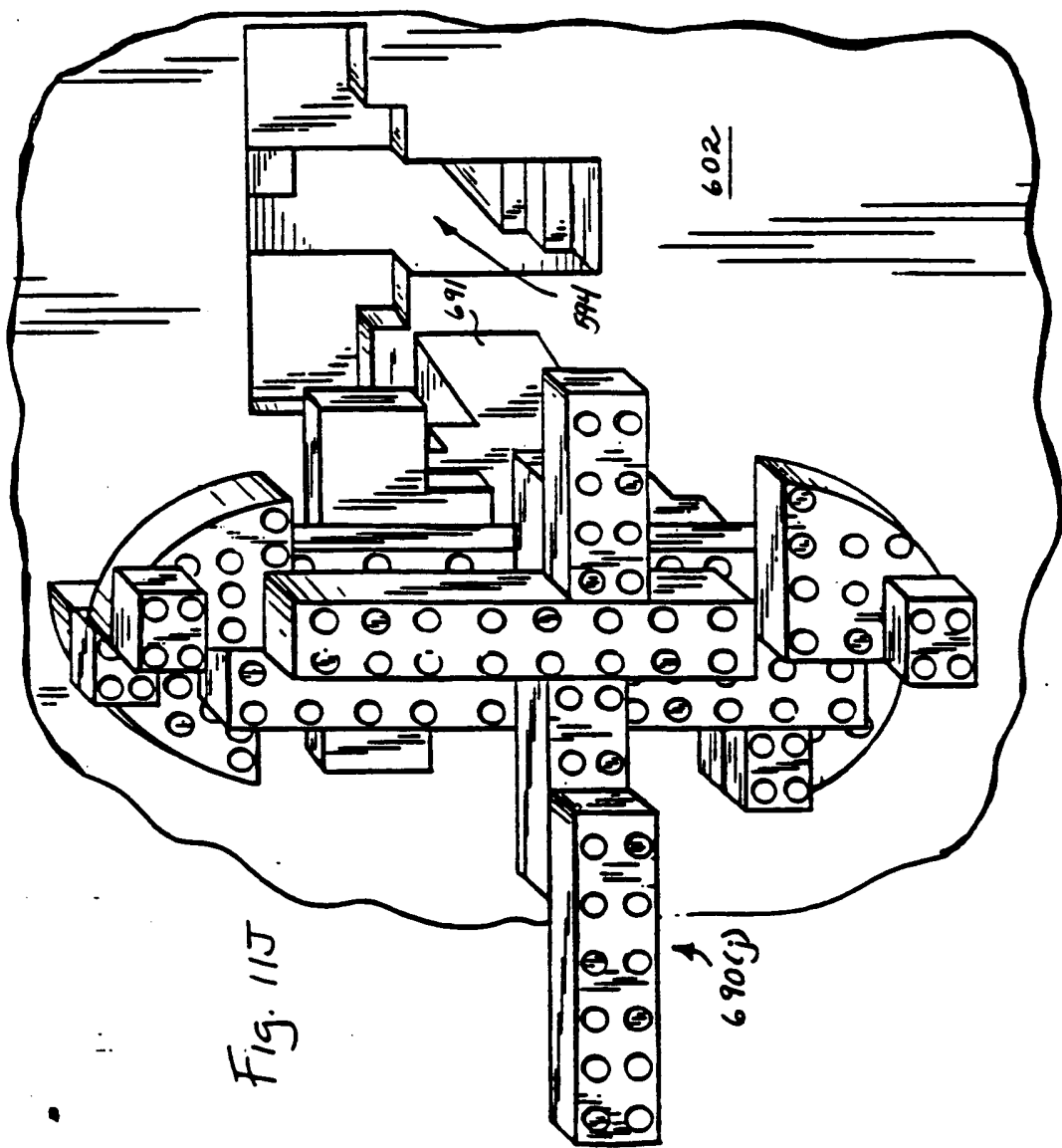


Fig. 11J

FILE SYSTEM 687



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FIG. 12A
OBJECT CREATION

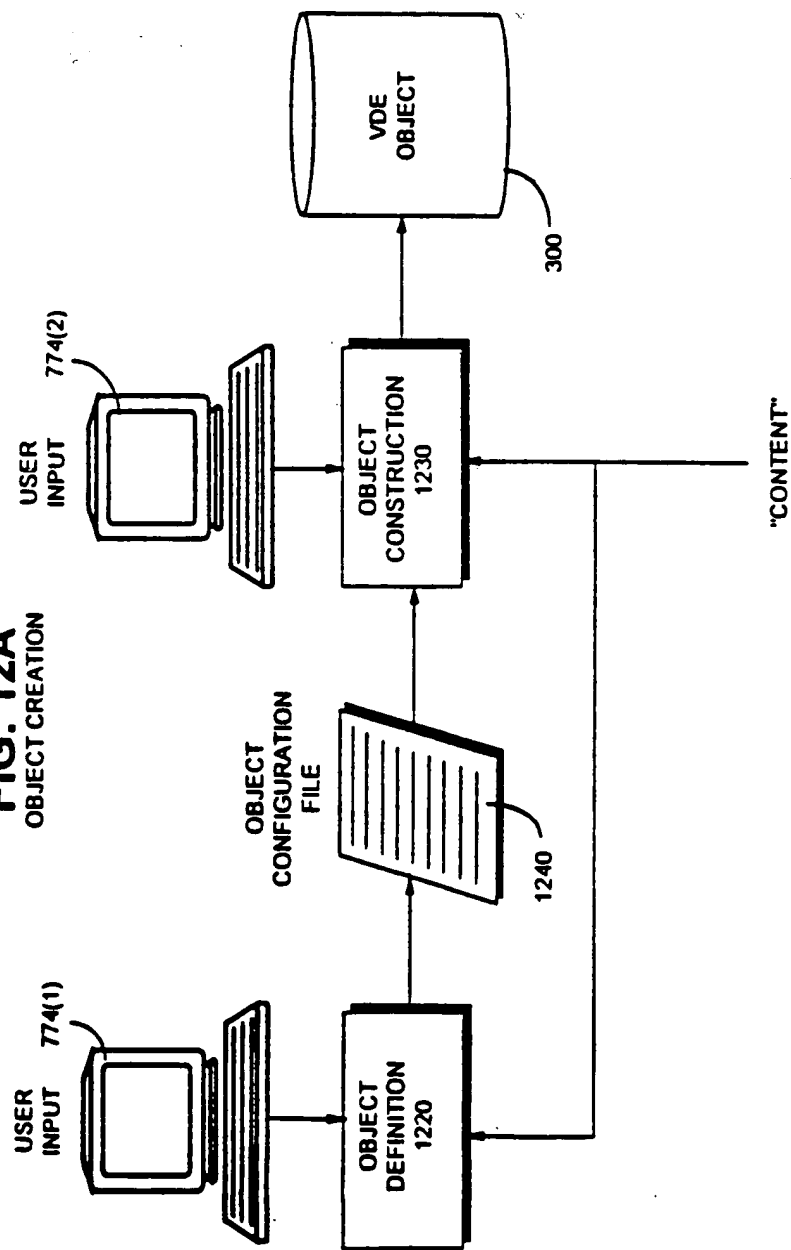
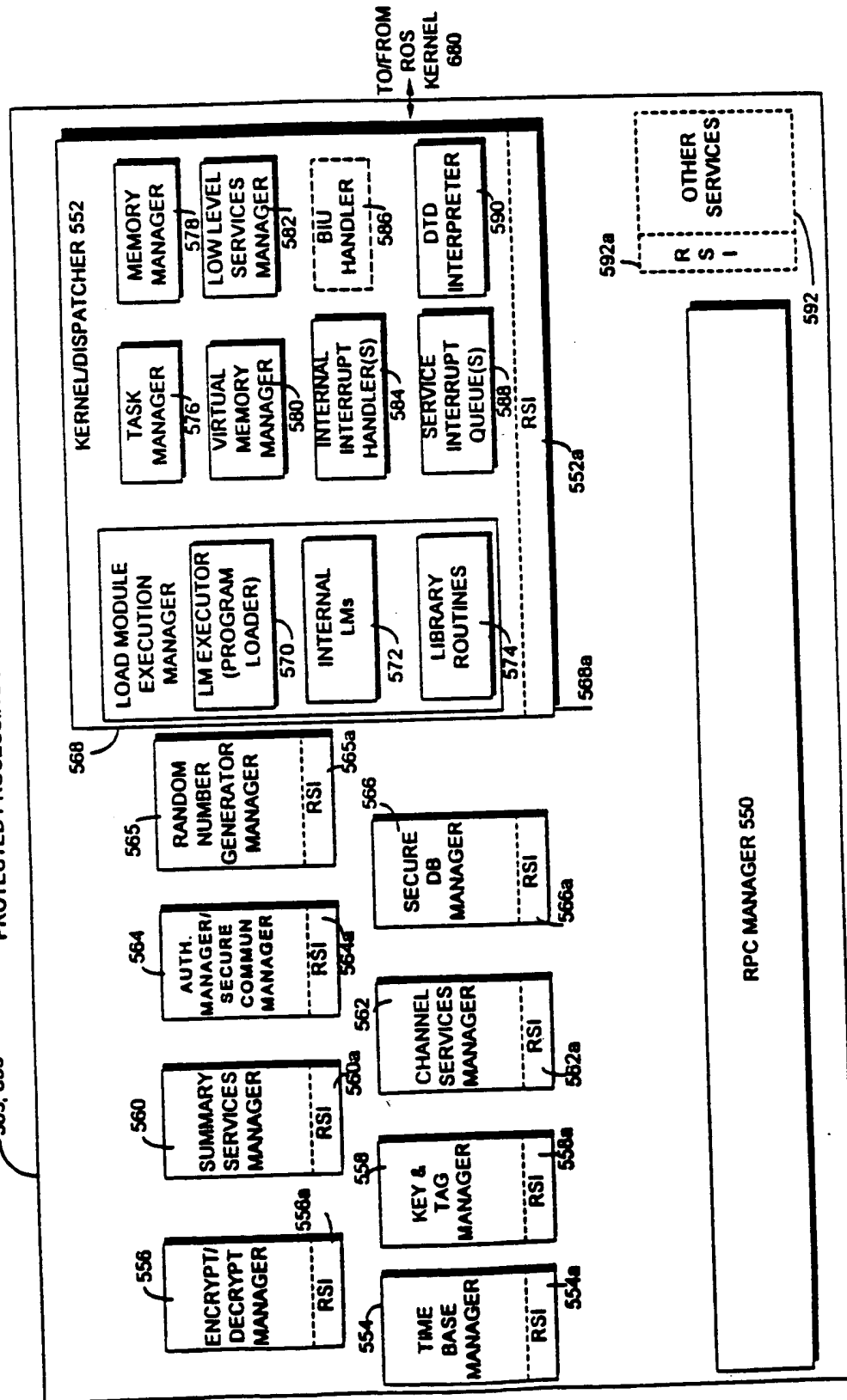


FIG. 13

PROTECTED PROCESSING ENVIRONMENT 650

503, 655



| |
|--|
| DEVICE FIRM WIRE LOW LEVEL SERVICES 582 |
| INITIALIZATION |
| POST |
| DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION |
| RECOVERY |
| EEPROM/FLASH MEMORY MANAGER |
| KERNEL/DISPATCHER 562 |
| INITIALIZATION |
| TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP) |
| INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED) |
| BIU HANDLER 586 |
| MEMORY MANAGER 578 |
| INITIALIZATION (SETTING MMU TABLES) |
| ALLOCATE |
| DEALLOCATE |
| VIRTUAL MEMORY MANAGER 580 |
| SWAP BLOCK PAGING |
| EXTERNAL MODULE PAGING |
| MEMORY COMPRESS |
| RPC AND TABLES 550 |
| INITIALIZATION |
| MESSAGING CODE /SERVICES MANAGER |
| SEND/RECEIVE |
| STATUS |
| RPC DISPATCH TABLE |
| RPC SERVICE TABLE |

⋮

FIG. 14A

| |
|--|
| TIME BASE MANAGER 554 |
| ENCRYPTION/DECRYPTION MANAGER 556 |
| PK |
| BULK |
| KEY AND TAG MANAGER 558 |
| KEY STORAGE IN EEPROM |
| KEY LOCATOR |
| KEY GENERATOR |
| CONVOLUTION ALGORITHM |
| SUMMARY SERVICES MANAGER 560 |
| EVENT SUMMARIES |
| BUDGET SUMMARIES |
| DISTRIBUTER SUMMARY SERVICES |
| CHANNEL SERVICES MANAGER 562 |
| CHANNEL HEADERS |
| CHANNEL DETAILS |
| LOAD MODULE EXECUTION SERVICES 568 |
| AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564 |
| DATABASE MANAGER 566 |
| MANAGEMENT FILE SUPPORT |
| TRANSACTION AND SEQUENCE NUMBER SUPPORT |
| SRN/ HASH |
| DTD INTERPRETER 590 |
| LIBRARY ROUTINES 674 |
| I/O CALLS (STRING SEARCH ETC.) |
| MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES |
| TAG CHECKING, MD5, CRC'S |
| INTERNAL LM'S 572 FOR BASIC METHODS |
| METER LOAD MODULE(S) |
| BILLING LOAD MODULE(S) |
| BUDGET LOAD MODULE(S) |
| AUDIT LOAD MODULE(S) |
| READ OBJECT LOAD MODULE(S) |
| WRITE OBJECT LOAD MODULE(S) |
| OPEN OBJECT LOAD MODULE(S) |
| CLOSE OBJECT LOAD MODULE(S) |

⋮

FIG. 14B

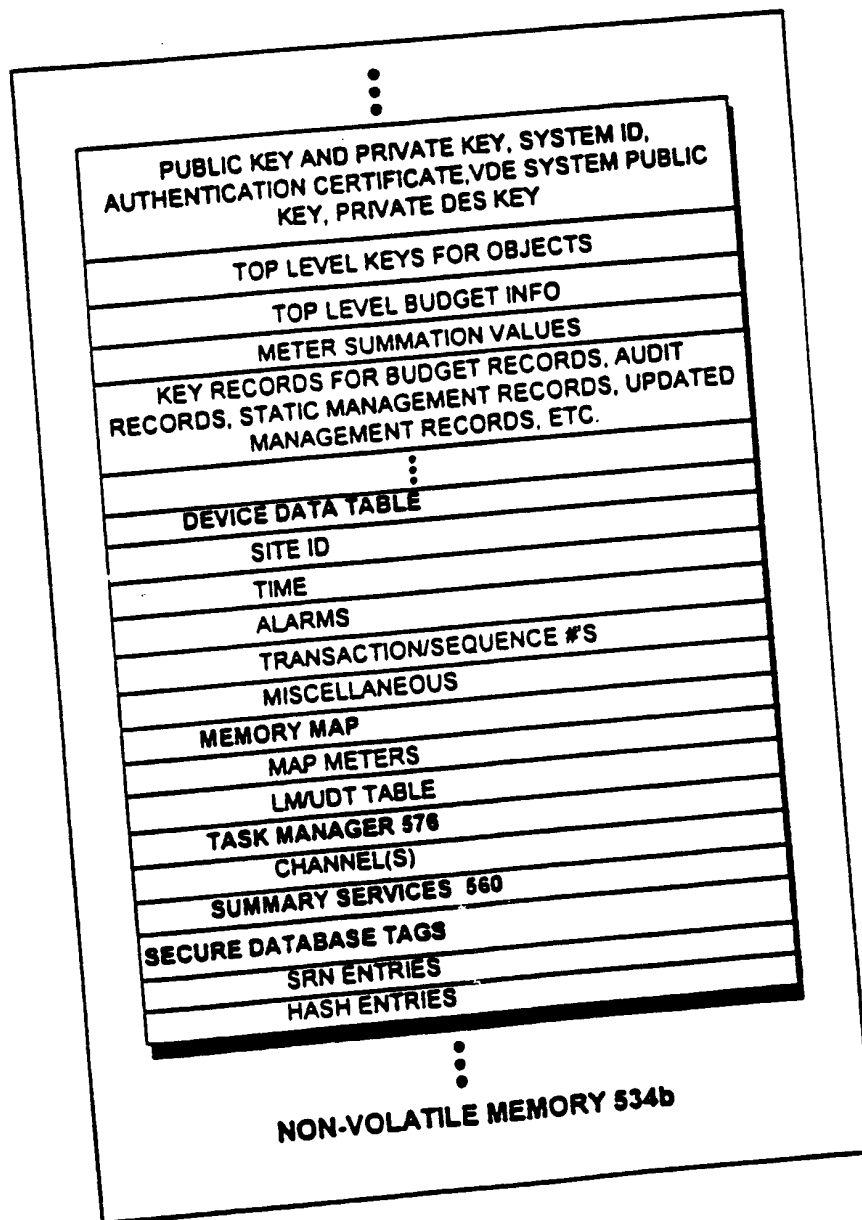
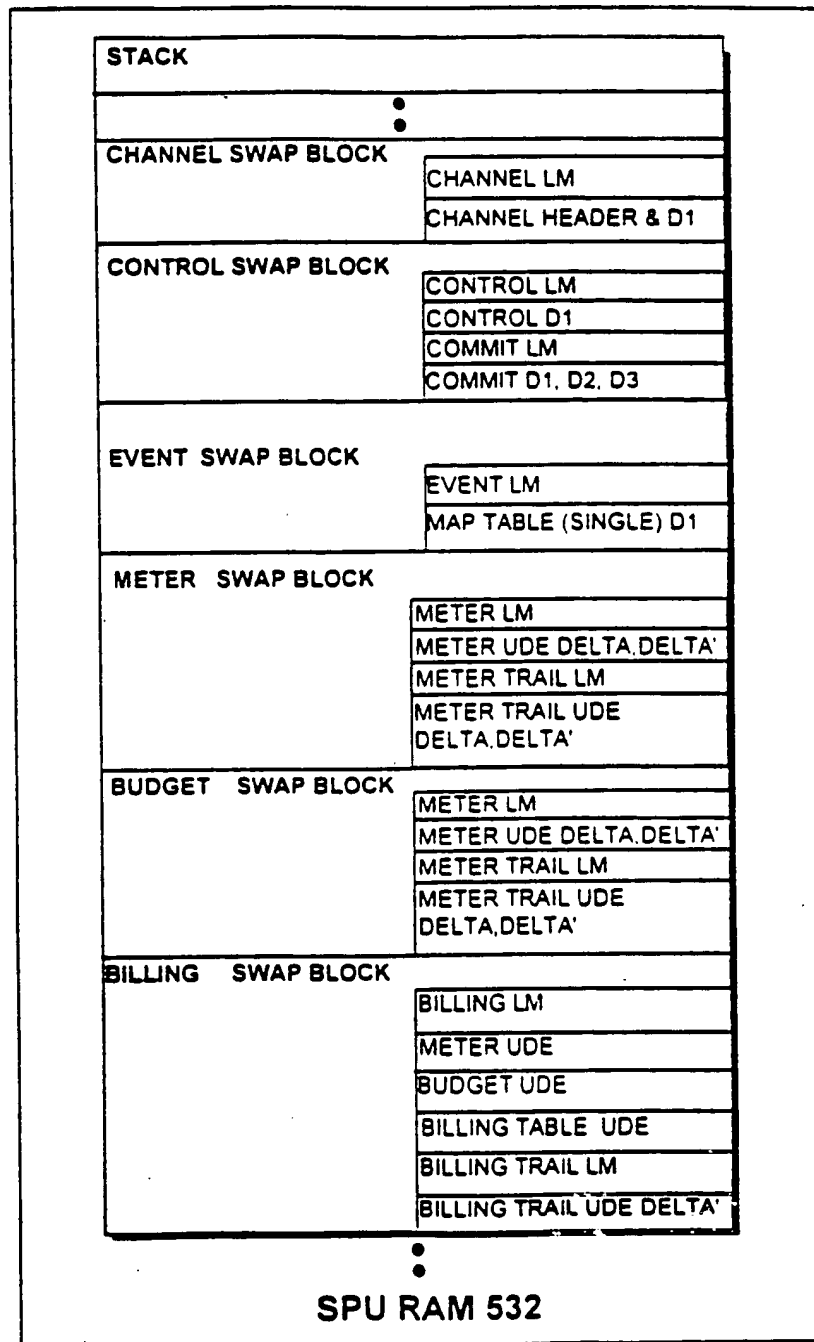


FIG. 14C



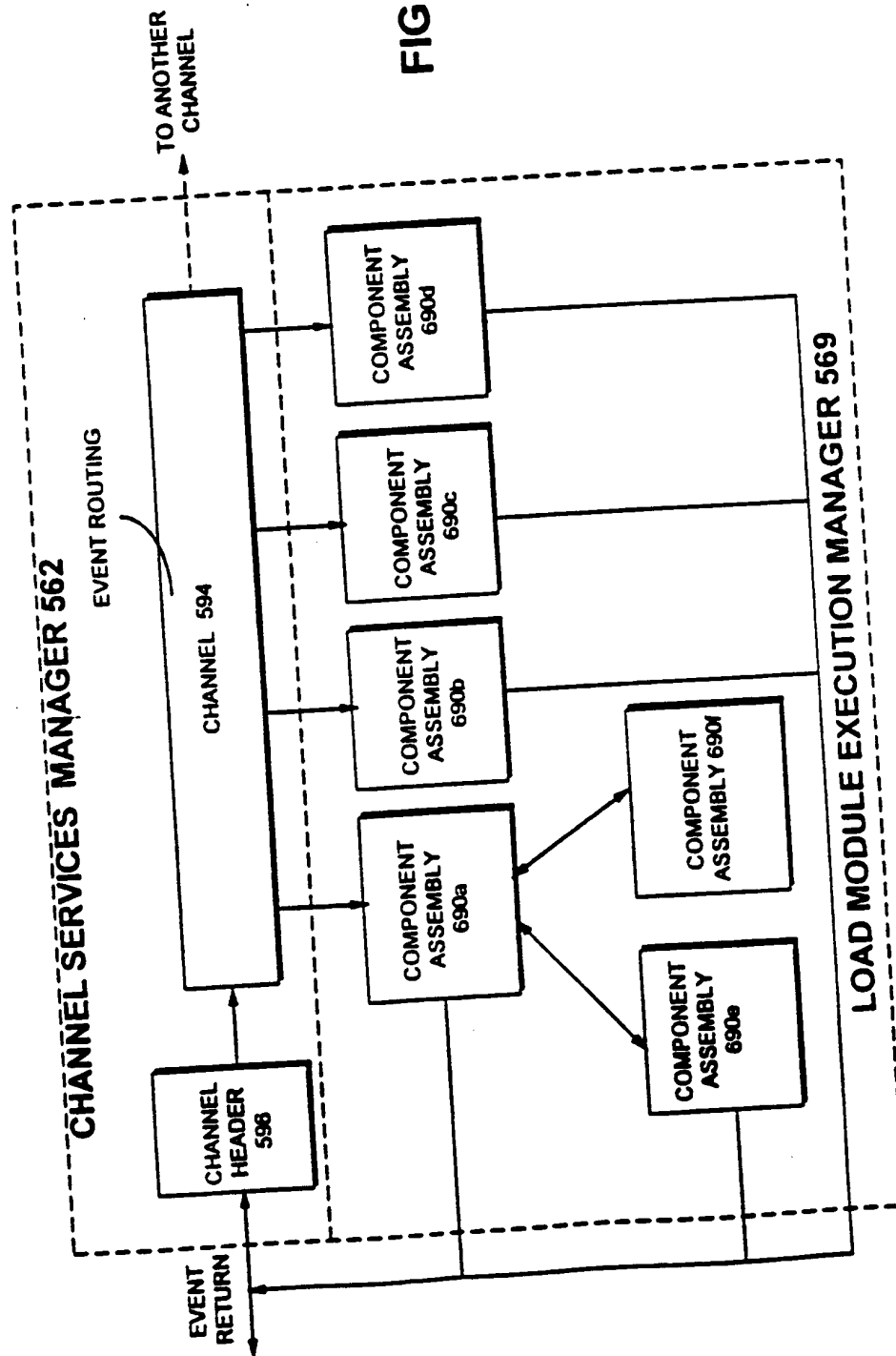


FIG. 15

FIG. 15A

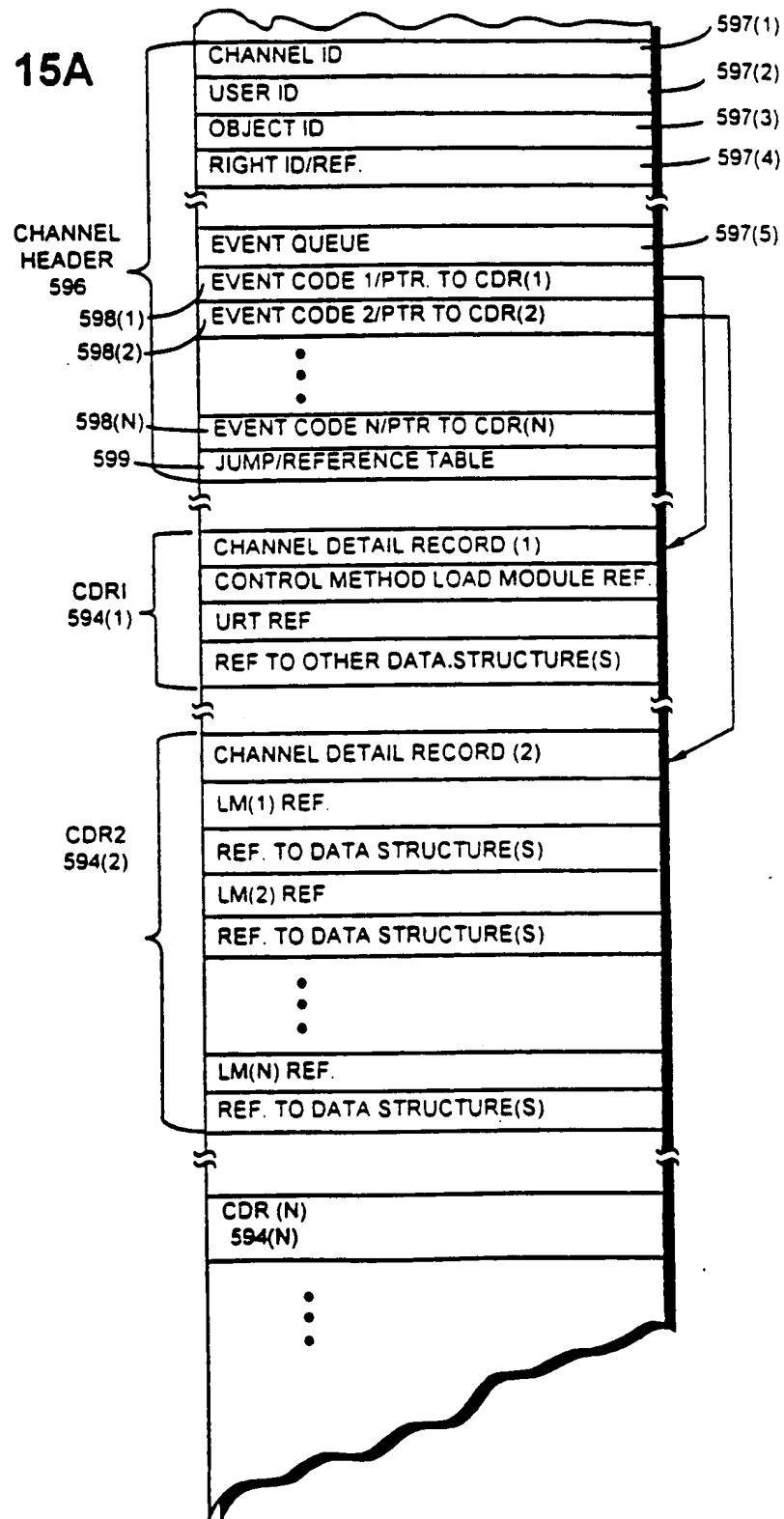


FIG. 15B

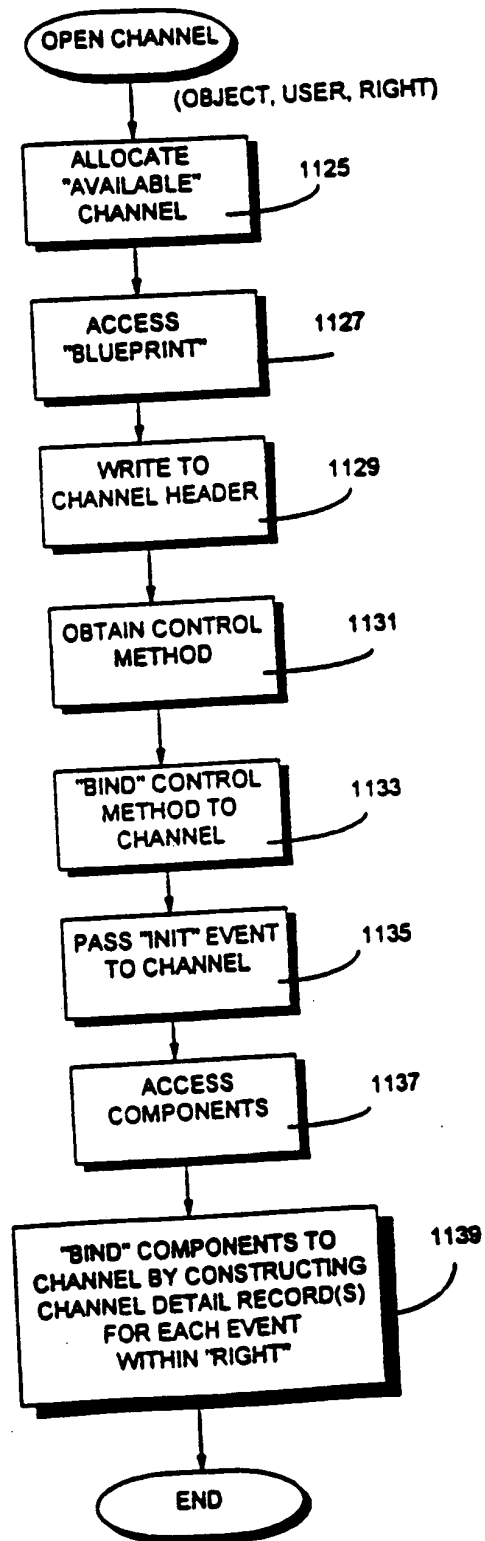
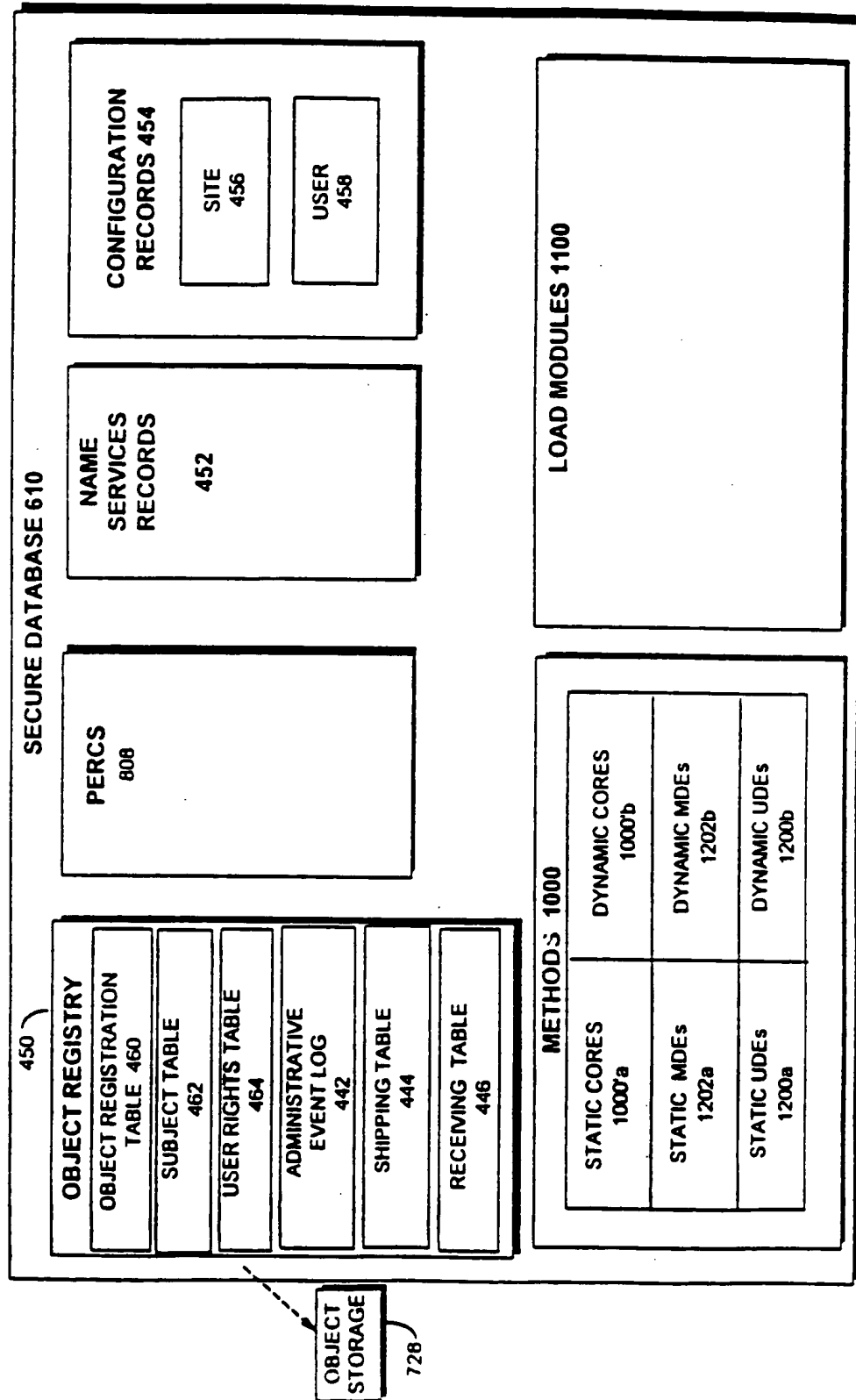
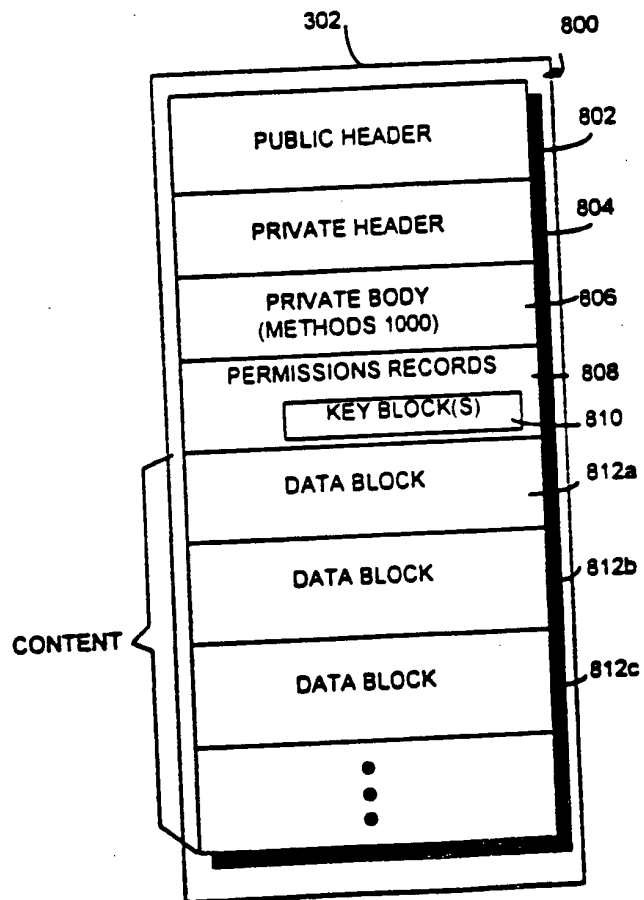


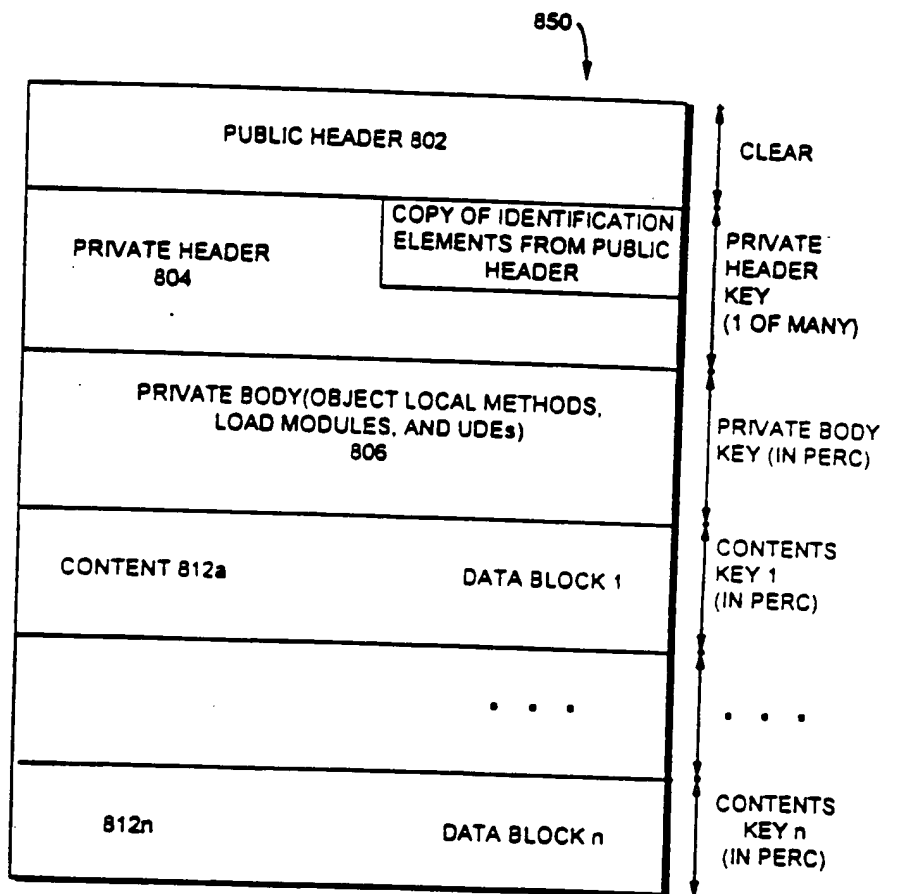
FIG. 16





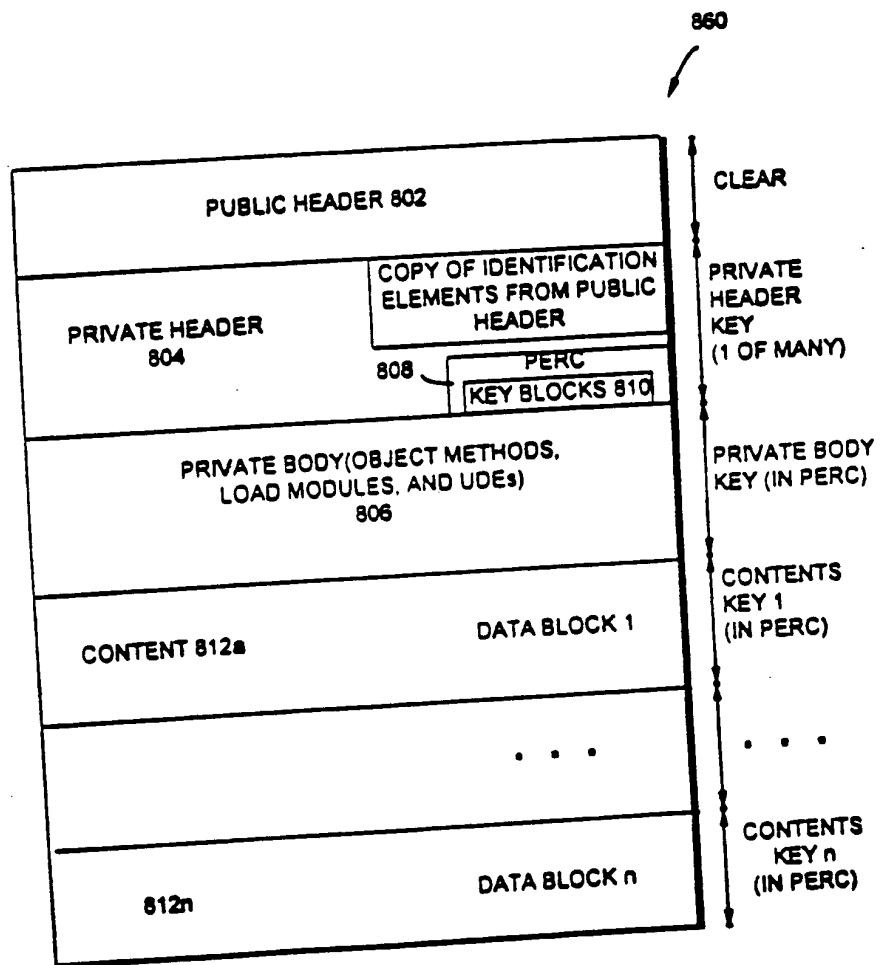
LOGICAL OBJECT

FIG. 17



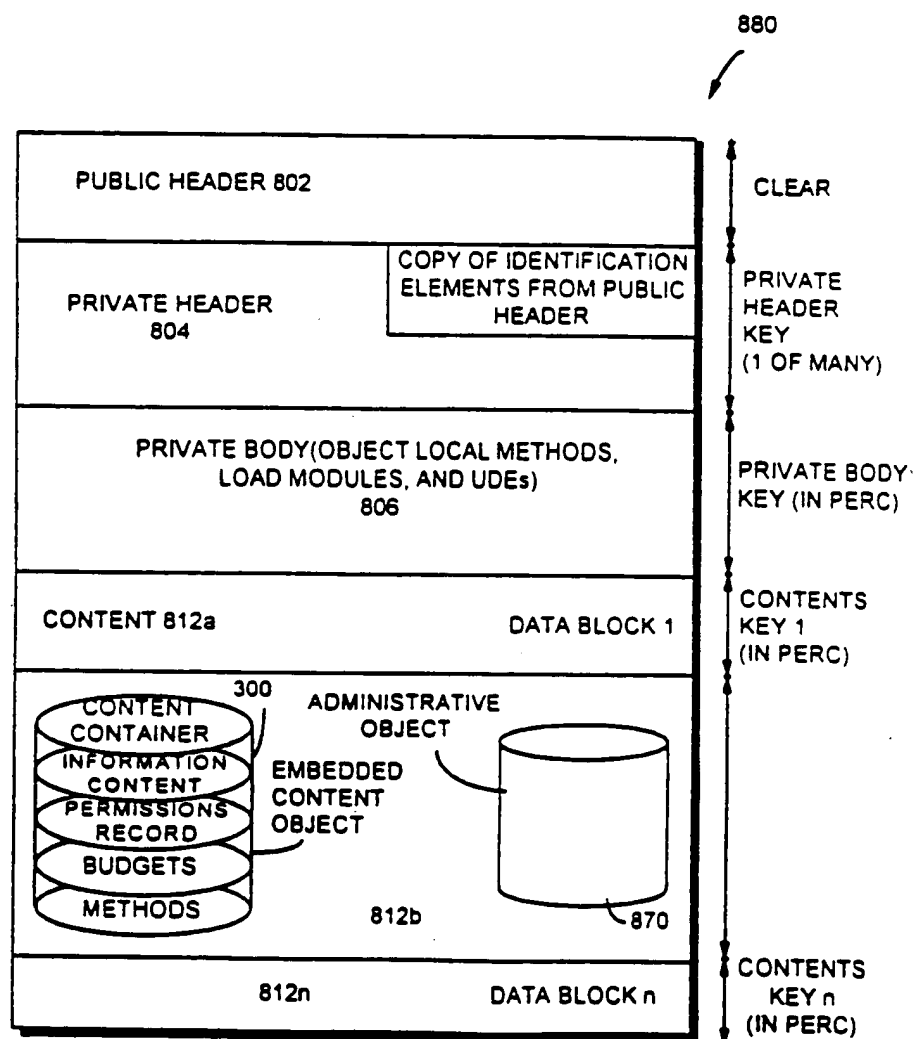
STATIONARY OBJECT

FIG. 18



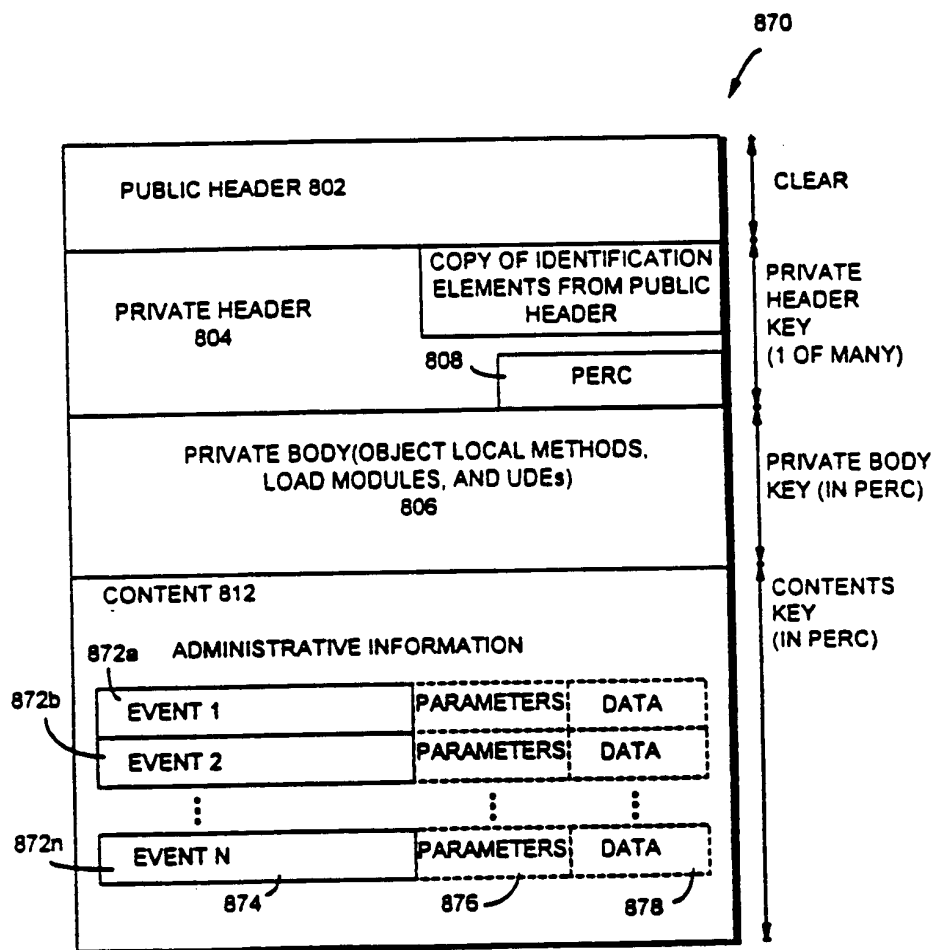
TRAVELING OBJECT

FIG. 19



CONTENT OBJECT

FIG. 20



ADMINISTRATIVE OBJECT

FIG. 21

FIG. 22

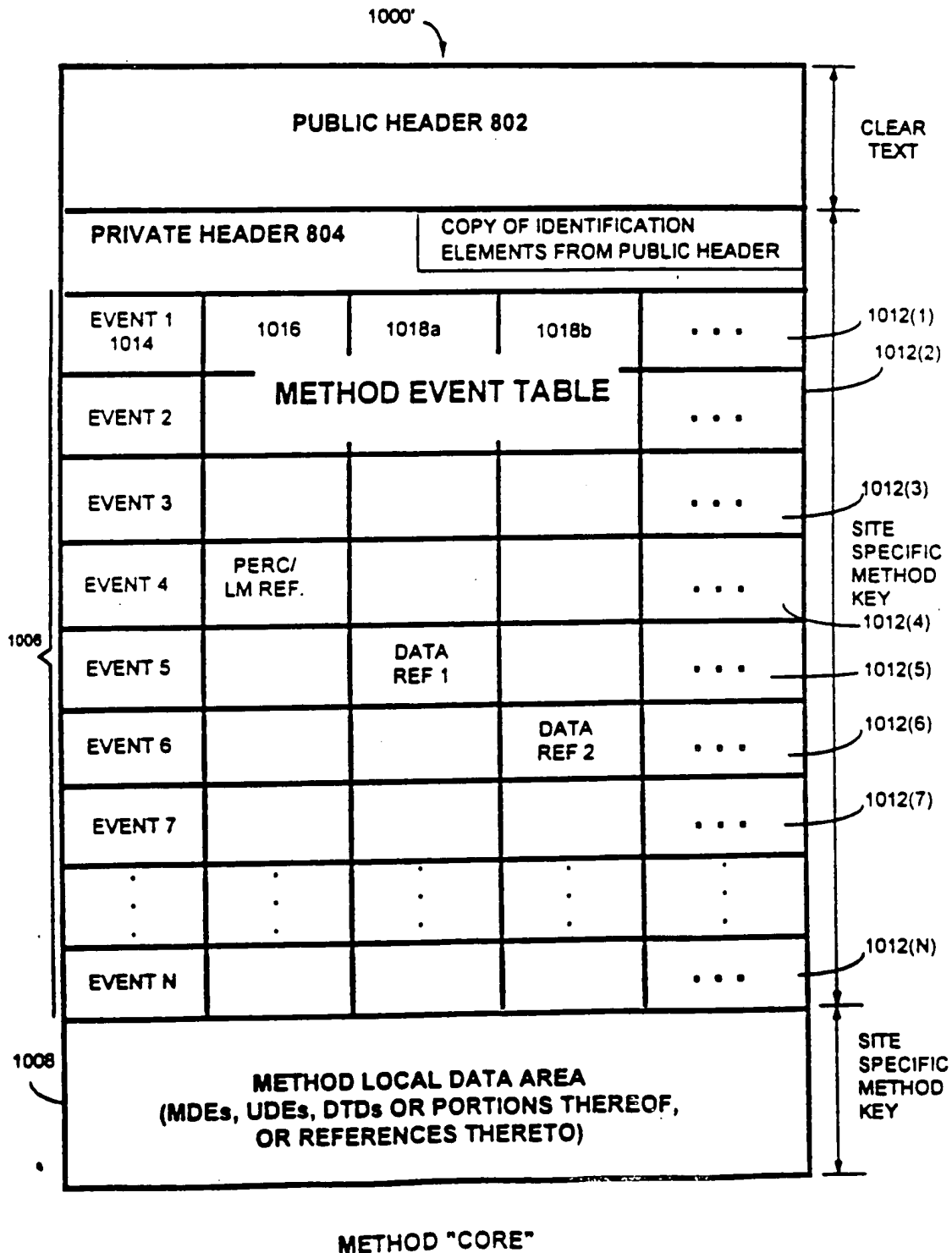
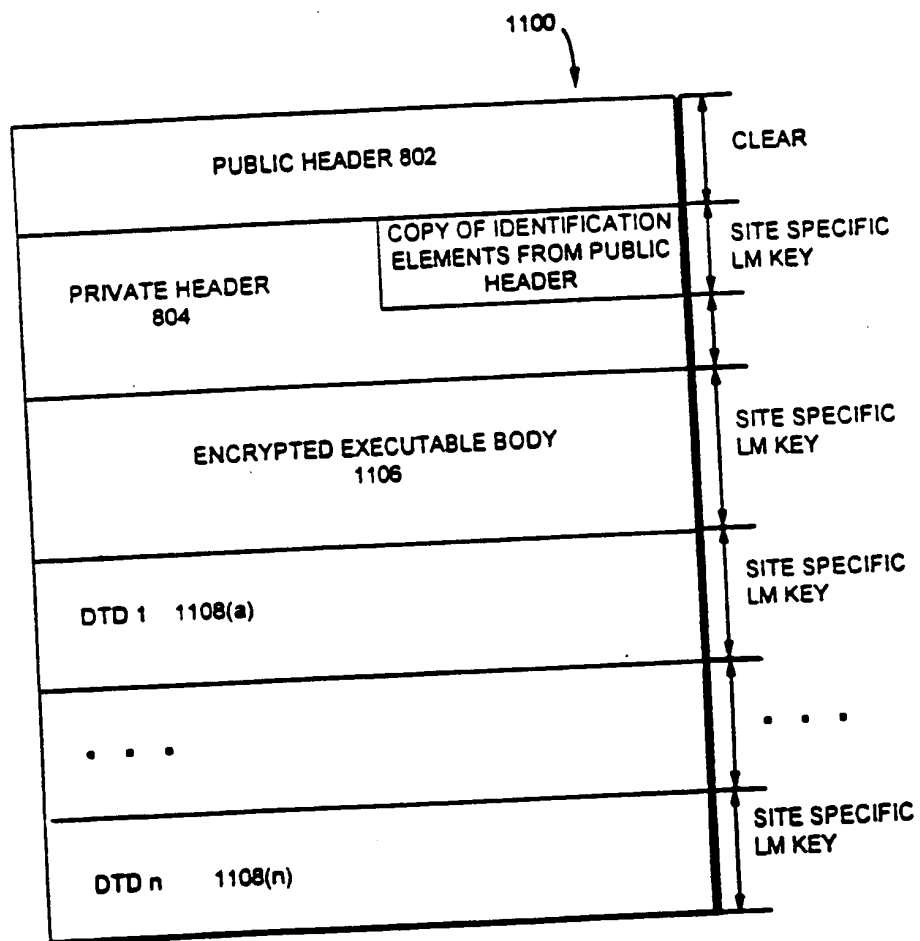


FIG. 23



LOAD MODULE

FIG. 24

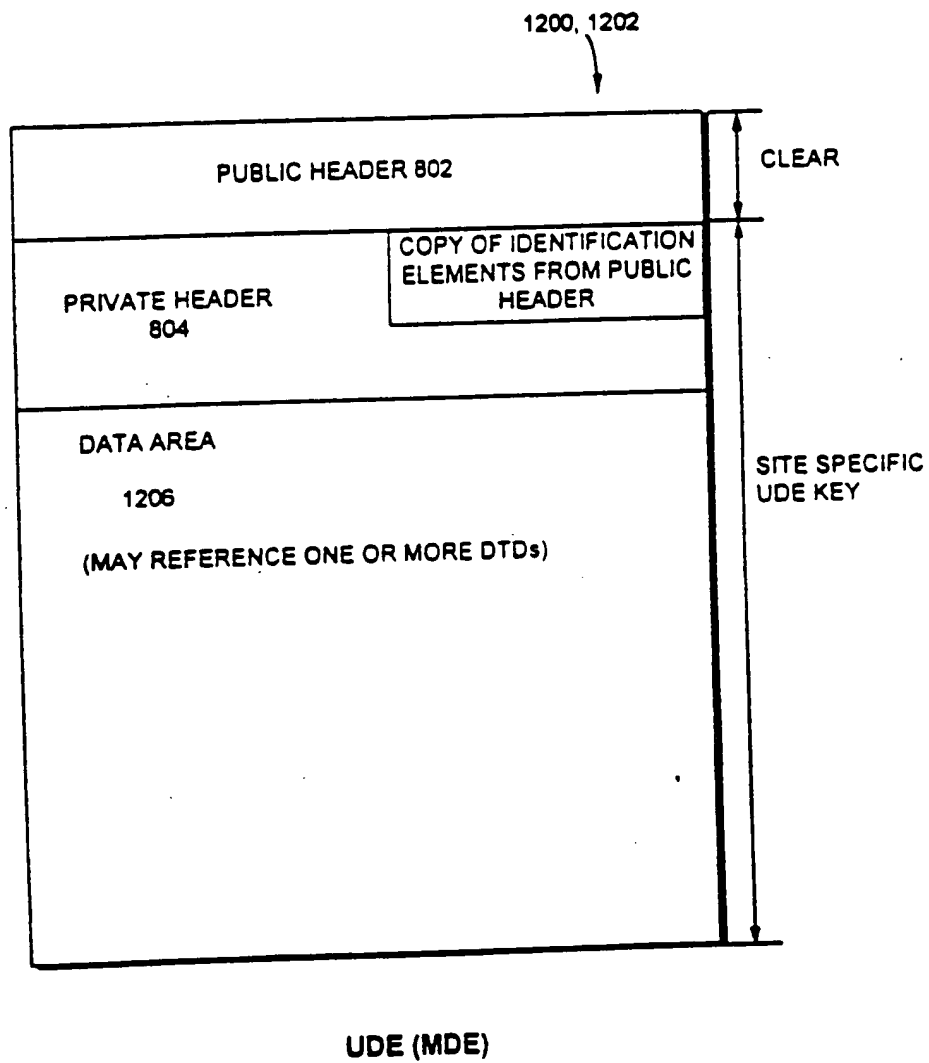


FIG. 25A

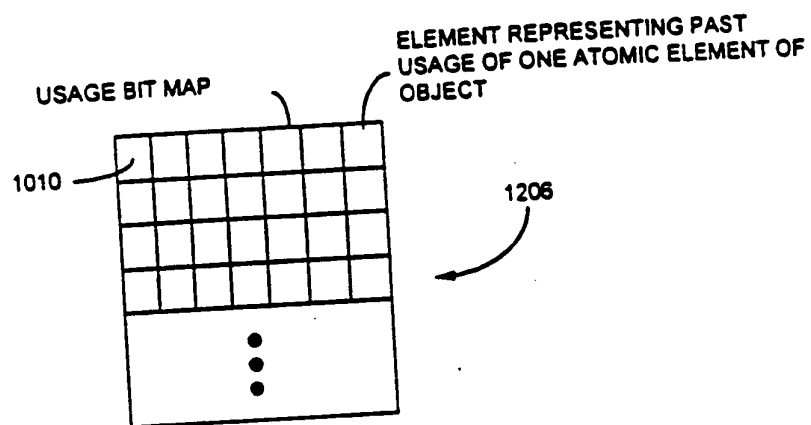


FIG. 25B

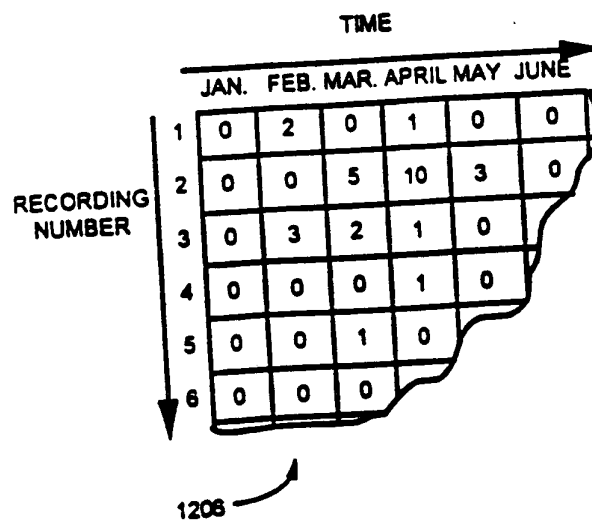


FIG. 25C

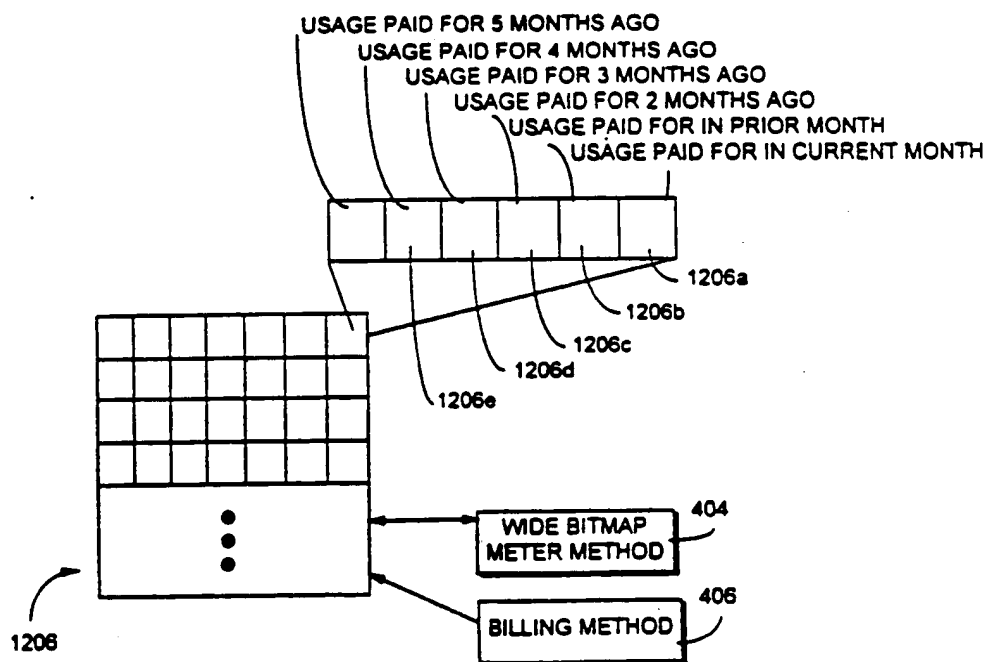


FIG. 25C

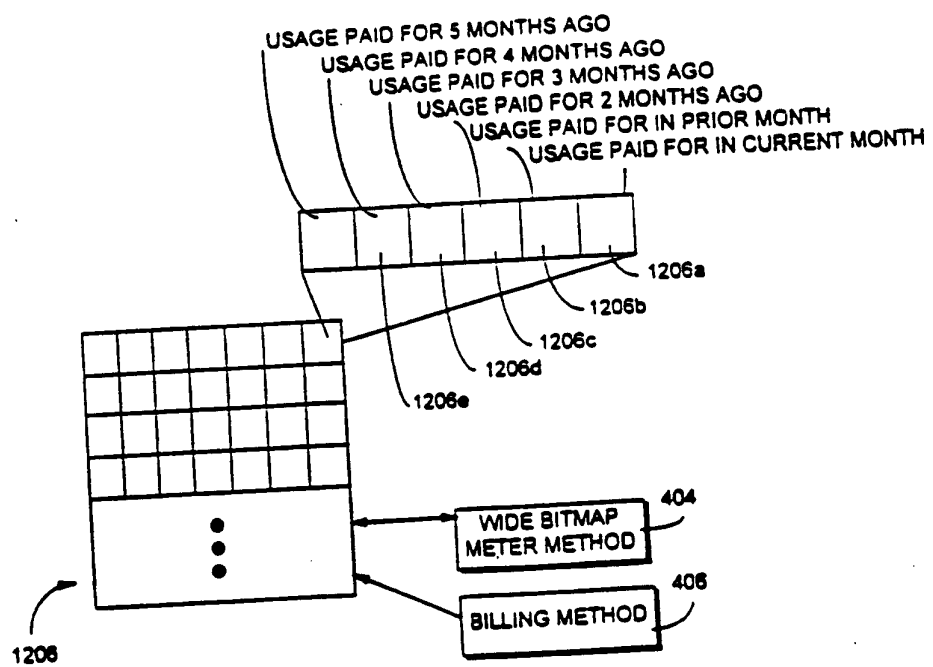


FIG. 26

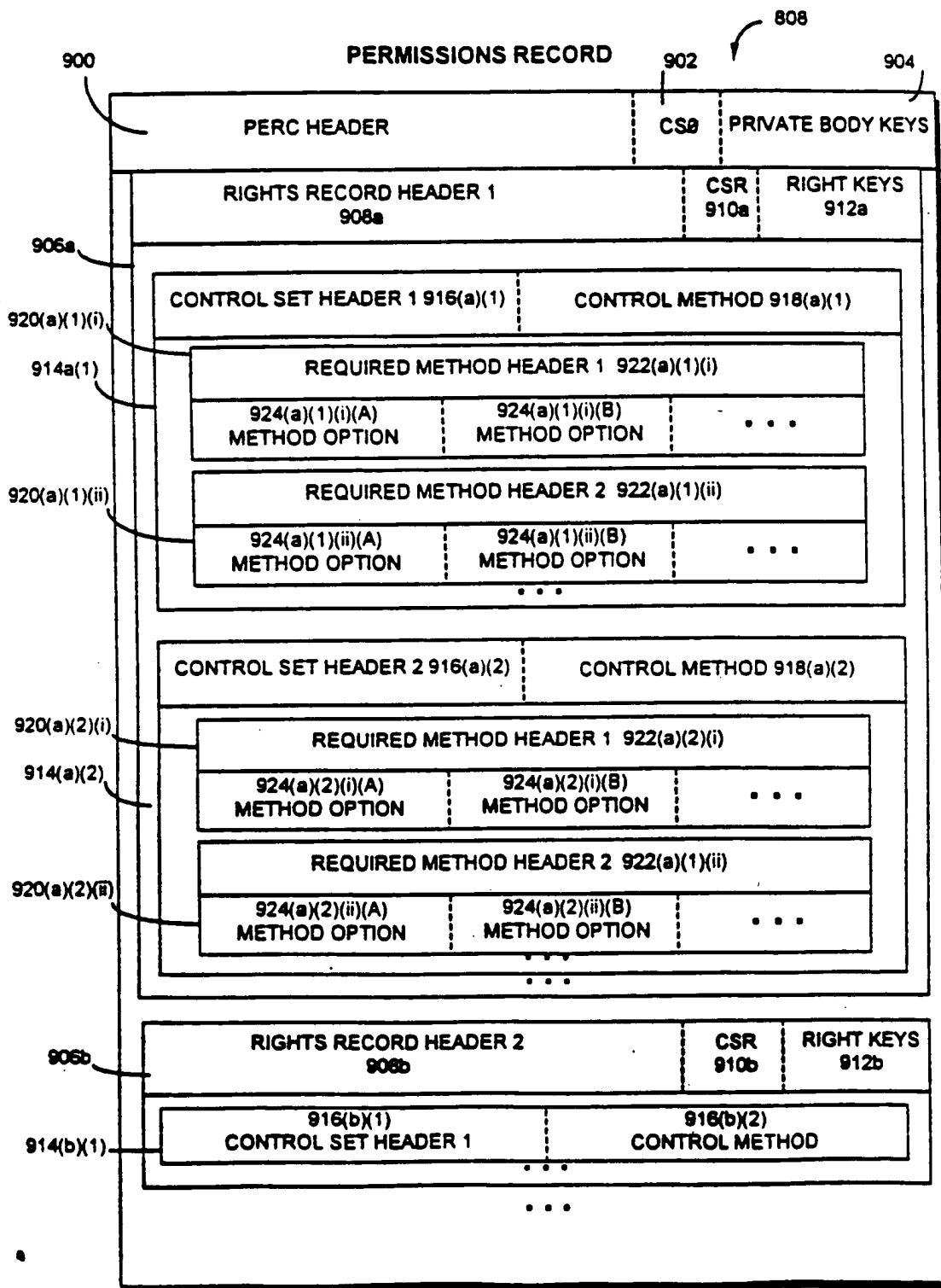


FIG. 26A

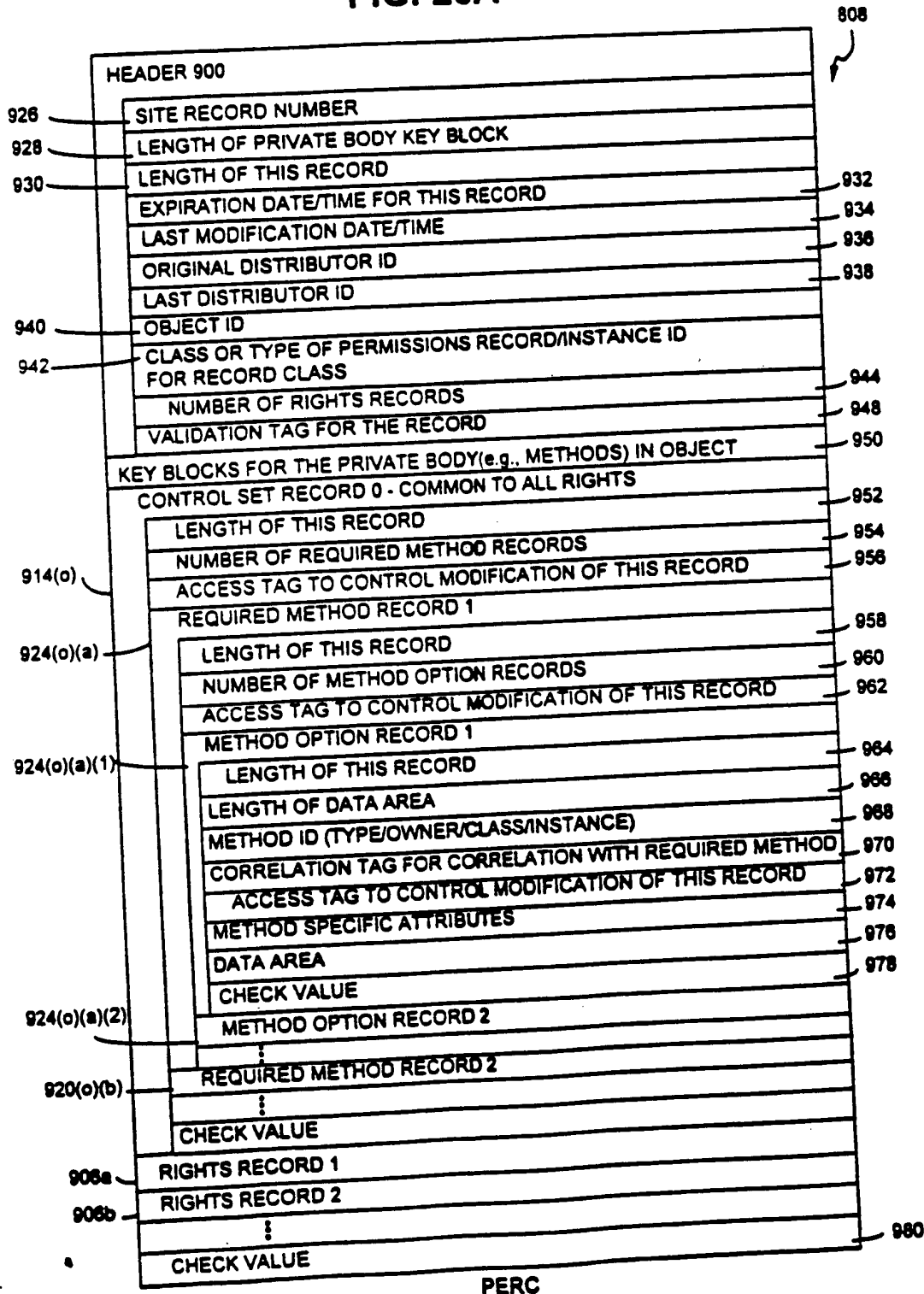


FIG. 26B

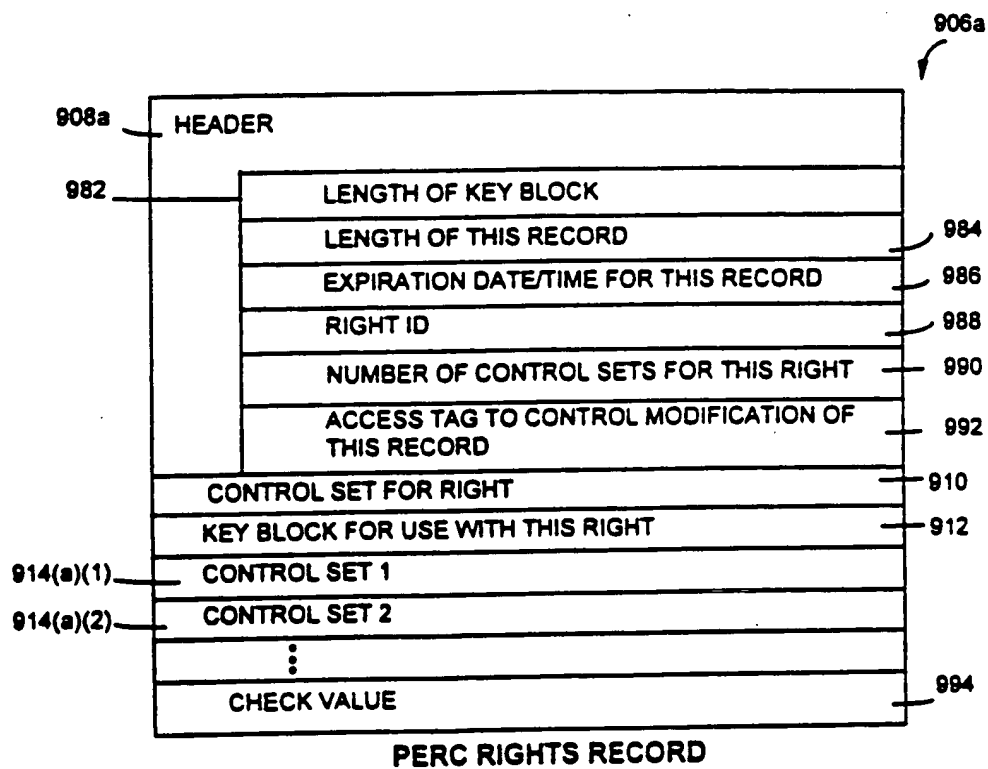


FIG. 27
SHIPPING TABLE

| | | | |
|------------------------------|--|---------|-----------|
| | | 444A(1) | |
| HEADER 444A | SITE RECORD NUMBER | | 444 |
| | USER (GROUP) ID | | 444A(2) |
| | REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD | | 444A(3) |
| | REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD | | 444A(4) |
| | REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD | | 444A(5) |
| | REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD | | 444A(6) |
| | VALIDATION TAG FROM NAME SERVICES RECORD | | 444A(7) |
| | VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S) | | 444A(8) |
| | CHECK VALUE | | 444A(9) |
| SHIPPING RECORD 445(1) | SITE RECORD NUMBER | | 445(1)(A) |
| | FIRST DATE/TIME FOR SCHEDULED SHIPMENT | | 445(1)(B) |
| | LAST DATE/TIME FOR SCHEDULED SHIPMENT | | 445(1)(C) |
| | ACTUAL DATE/TIME OF COMPLETED SHIPMENT | | 445(1)(D) |
| | OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED | | 445(1)(E) |
| | REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG | | 445(1)(F) |
| | REF. TO NAME SERVICES RECORD NAMING RECIPIENT | | 445(1)(G) |
| | PURPOSE OF SHIPMENT | | 445(1)(H) |
| | STATUS OF SHIPMENT | | 445(1)(I) |
| | REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD | | 445(1)(J) |
| | REF. TO "NEXT" OUTGOING SHIPPING RECORD | | 445(1)(K) |
| | VALIDATION TAG FROM HEADER | | 445(1)(L) |
| | VALIDATION TAG TO ADMINISTRATIVE EVENT LOG | | 445(1)(M) |
| | VALIDATION TAG TO NAME SERVICES RECORD | | 445(1)(N) |
| | VALIDATION TAG FROM PREVIOUS RECORD | | 445(1)(O) |
| | VALIDATION TAG TO NEXT RECORD | | 445(1)(P) |
| | CHECK VALUE | | 445(1)(Q) |
| | : | | |
| | SHIPPING RECORD N | | 445(1)(R) |

FIG. 28
RECEIVING TABLE

| | | | |
|-------------------------------|---|---------|-----------|
| | | 446A(1) | |
| HEADER 446A | SITE RECORD NUMBER | | 446 |
| | USER (GROUP) ID | | 446A(2) |
| | REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD | | 446A(3) |
| | REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD | | 446A(4) |
| | REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD | | 446A(5) |
| | REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD | | 446A(6) |
| | VALIDATION TAG FROM NAME SERVICES RECORD | | 446A(7) |
| | VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S) | | 446A(8) |
| | CHECK VALUE | | 446A(9) |
| RECEIVING RECORD 447(1) | SITE RECORD NUMBER | | 447(1)(A) |
| | FIRST DATE/TIME FOR SCHEDULED RECEPTION | | 447(1)(B) |
| | LAST DATE/TIME FOR SCHEDULED RECEPTION | | 447(1)(C) |
| | ACTUAL DATE/TIME OF COMPLETED RECEPTION | | 447(1)(D) |
| | OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED | | 447(1)(E) |
| | REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG | | 447(1)(F) |
| | REF. TO NAME SERVICES RECORD NAMING SENDER | | 447(1)(G) |
| | PURPOSE OF RECEPTION | | 447(1)(H) |
| | STATUS OF RECEPTION | | 447(1)(I) |
| | REF. TO "PREVIOUS" INCOMING RECEIVING RECORD | | 447(1)(J) |
| | REF. TO "NEXT" INCOMING RECEIVING RECORD | | 447(1)(K) |
| | VALIDATION TAGS | | 447(1)(L) |
| | CHECK VALUE | | 447(1)(M) |
| | ⋮ | | |
| | RECEIVING RECORD N | | 447(2) |

FIG. 29
ADMINISTRATIVE EVENT LOG

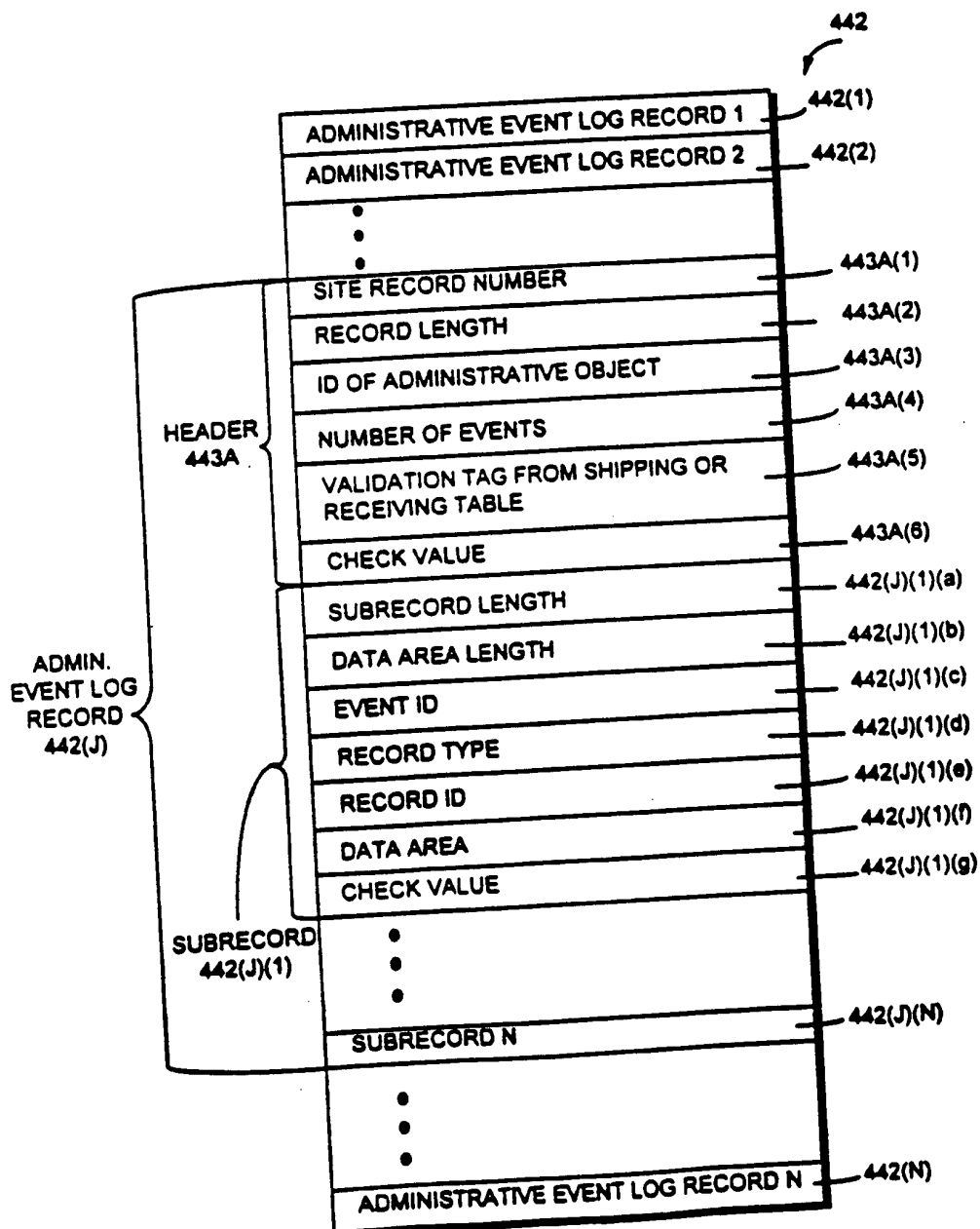
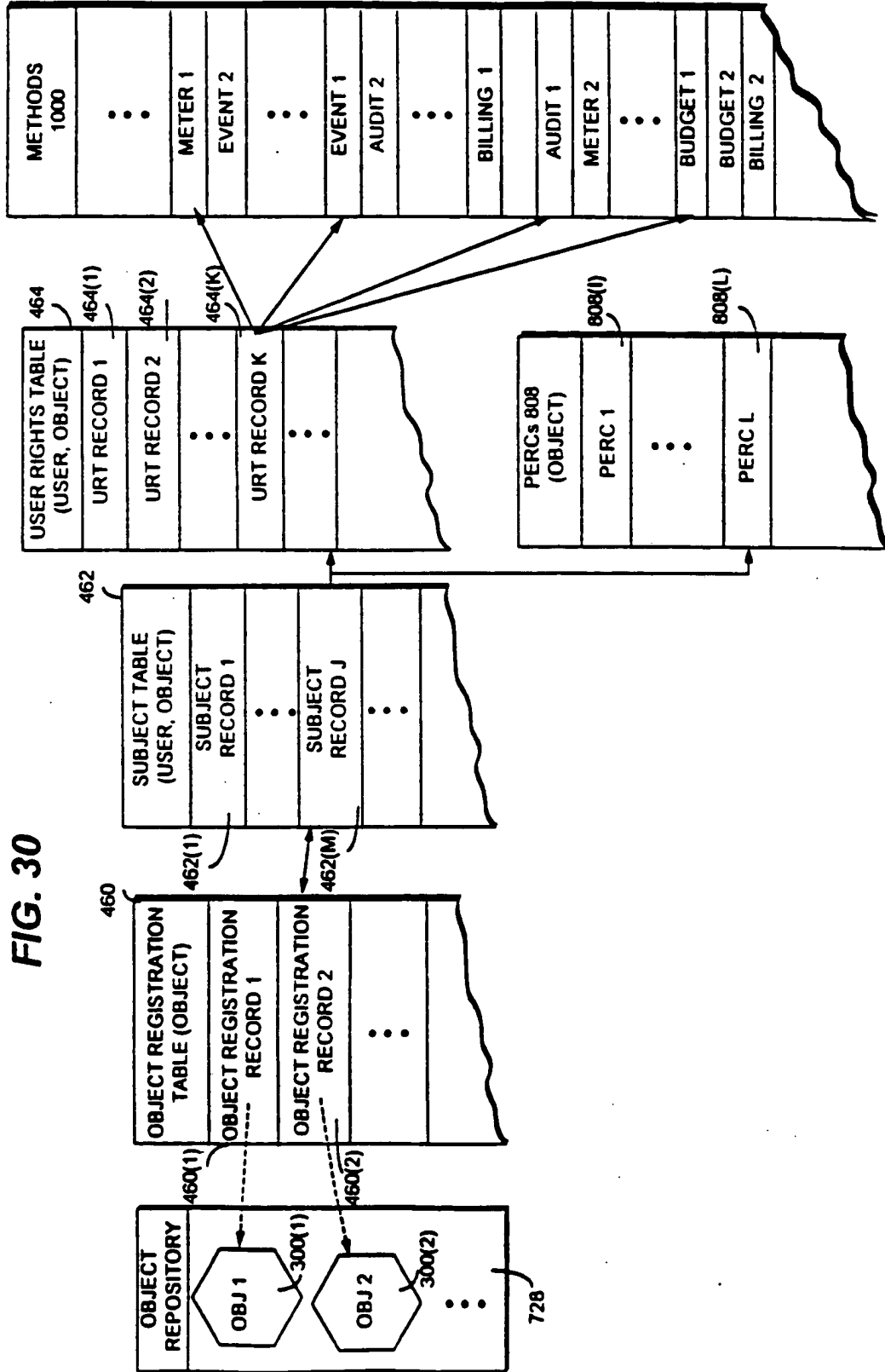


FIG. 30



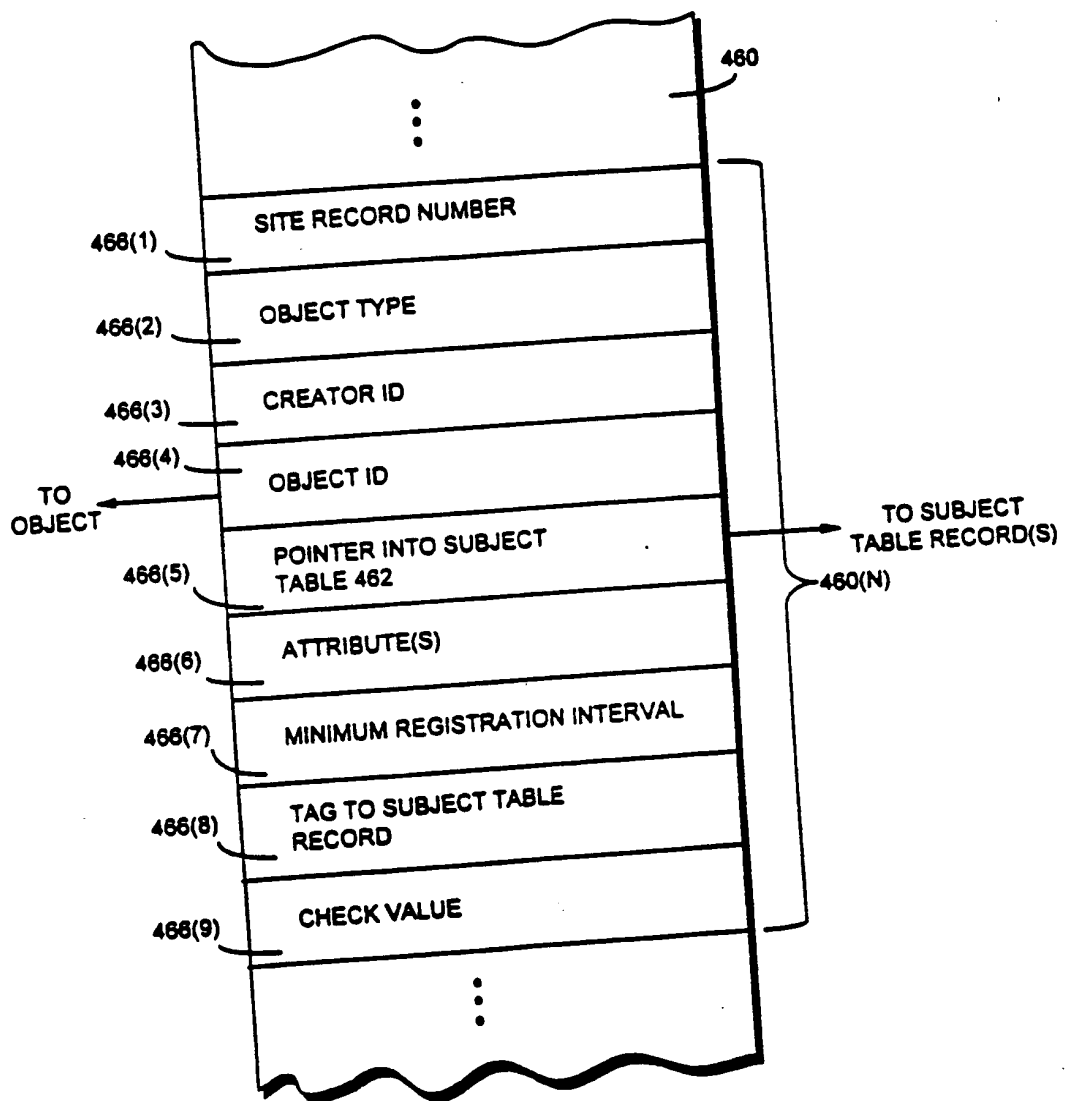


FIG. 31
OBJECT REGISTRATION TABLE

FIG. 32

SUBJECT
TABLE

"HEADER"
468

SUBJECT
RECORD
470(1)

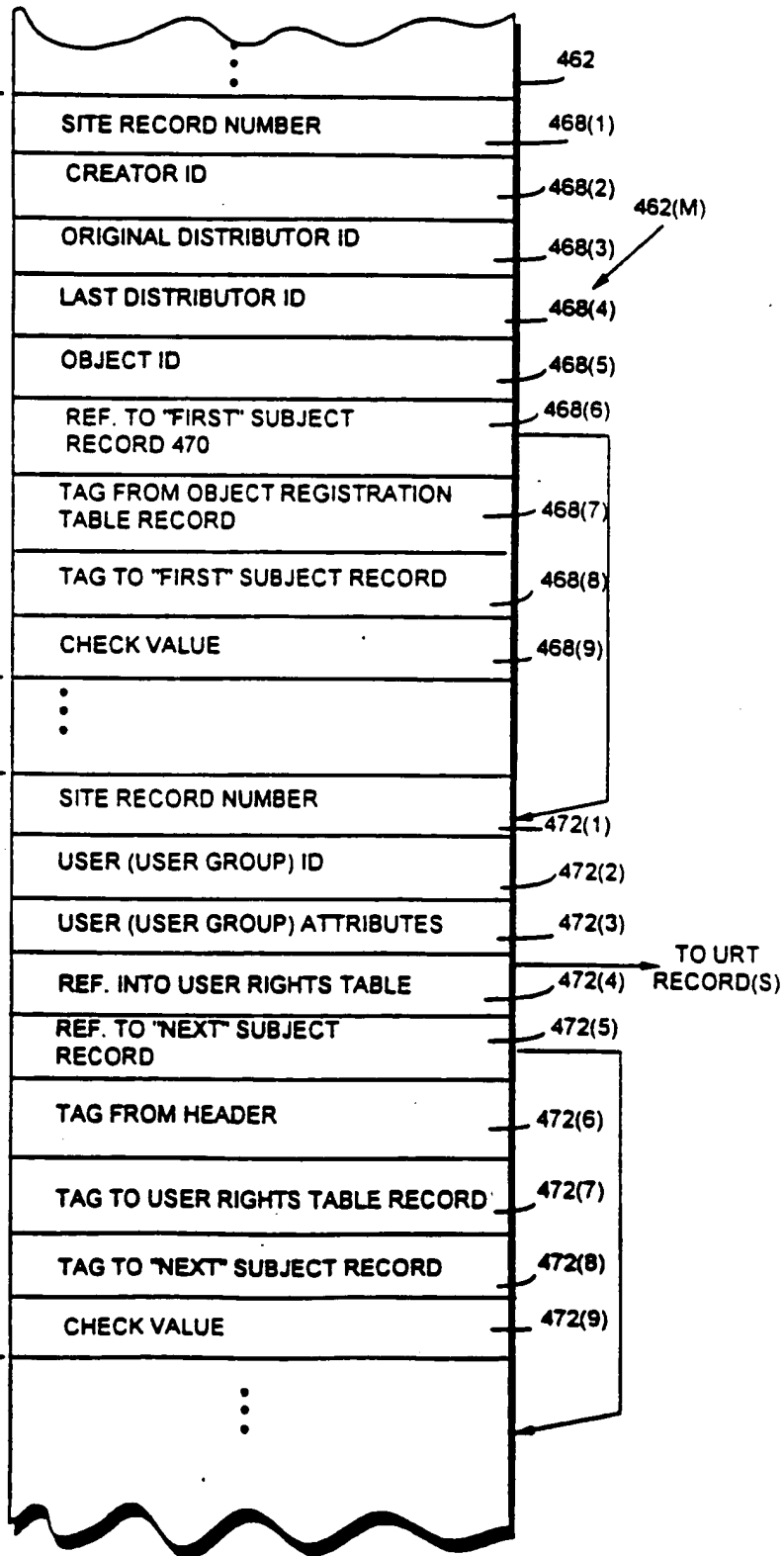


FIG. 33 USER RIGHTS TABLE

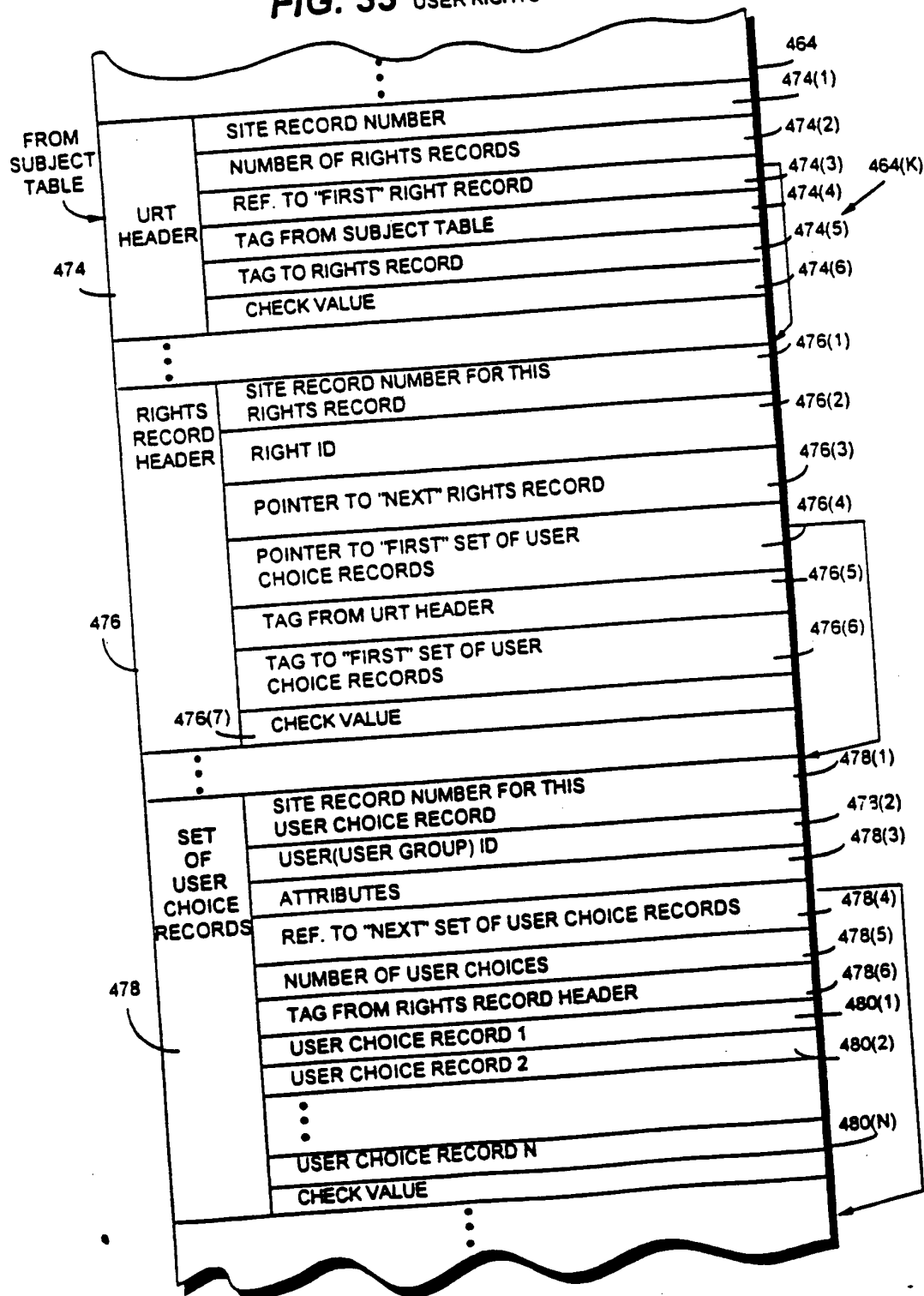


FIG. 34

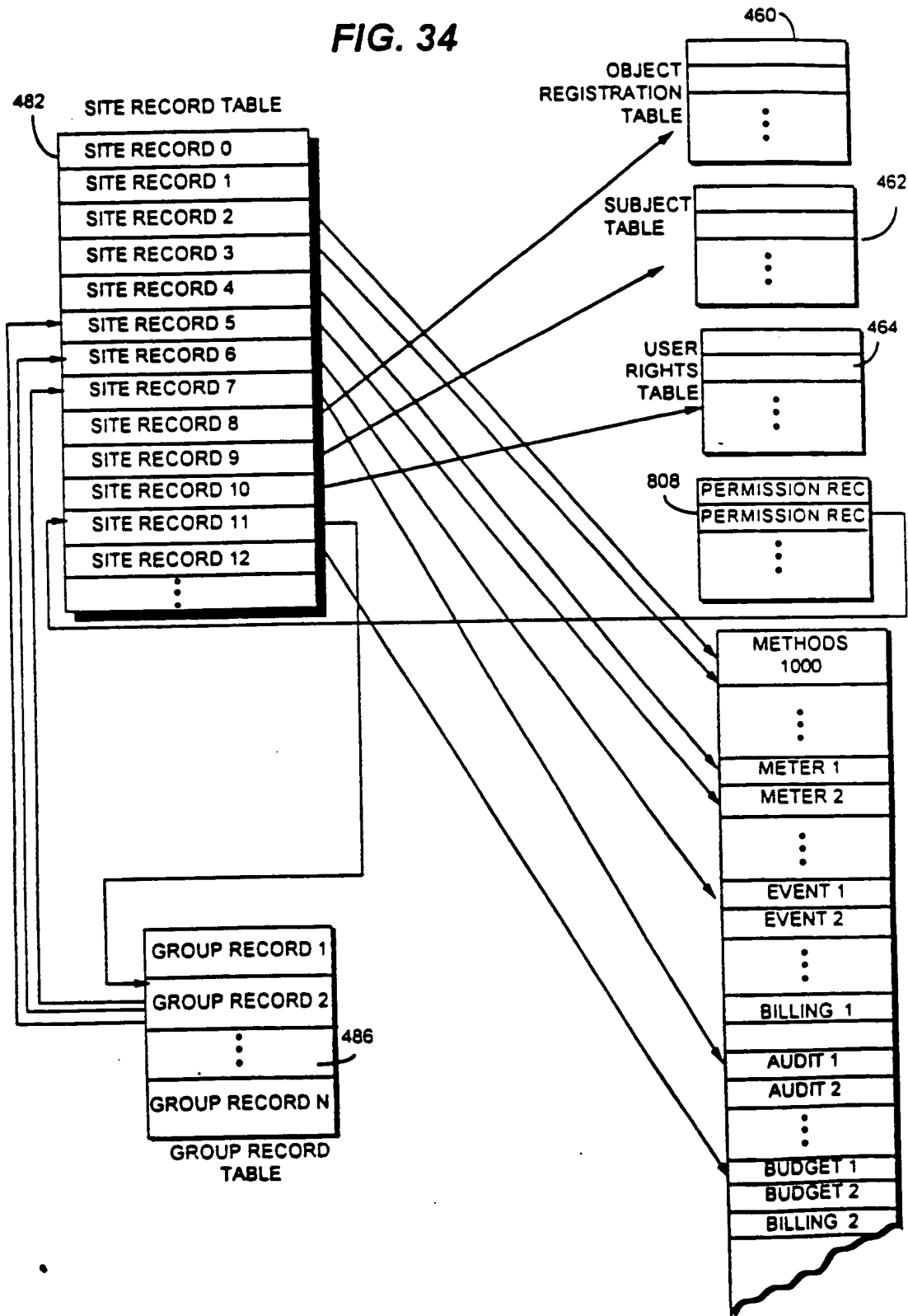


FIG. 34A

SITE RECORD

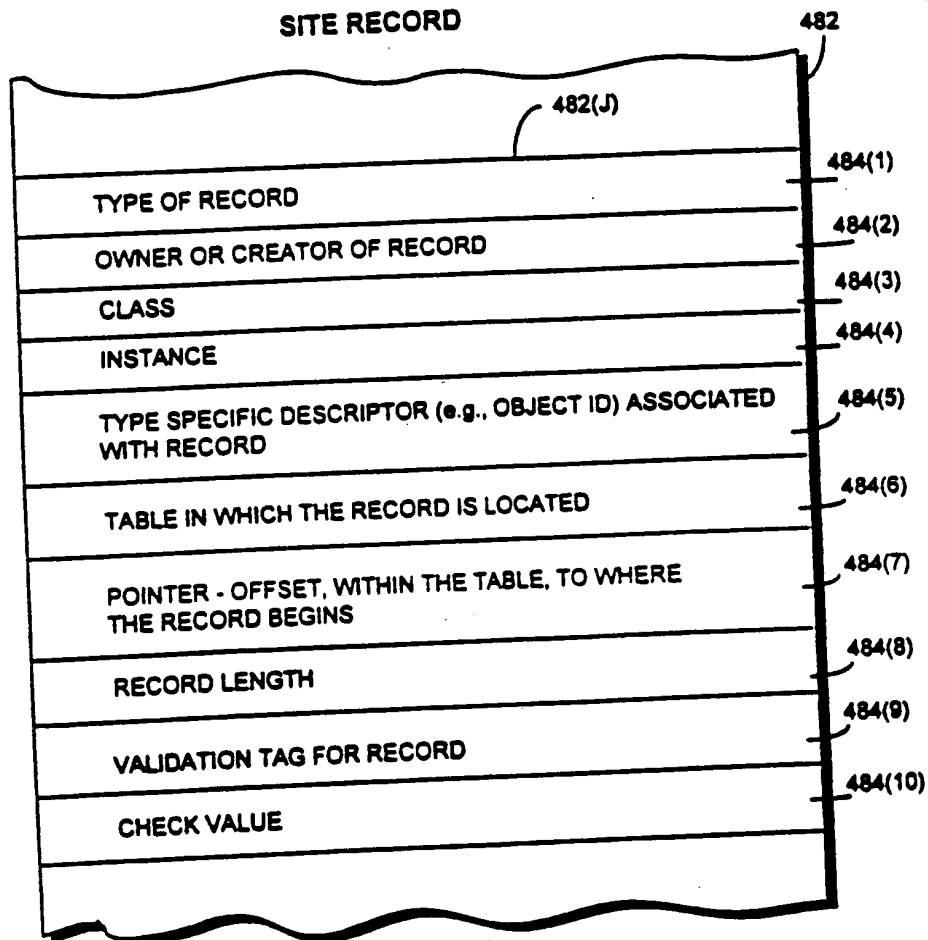


FIG. 34B

GROUP RECORD

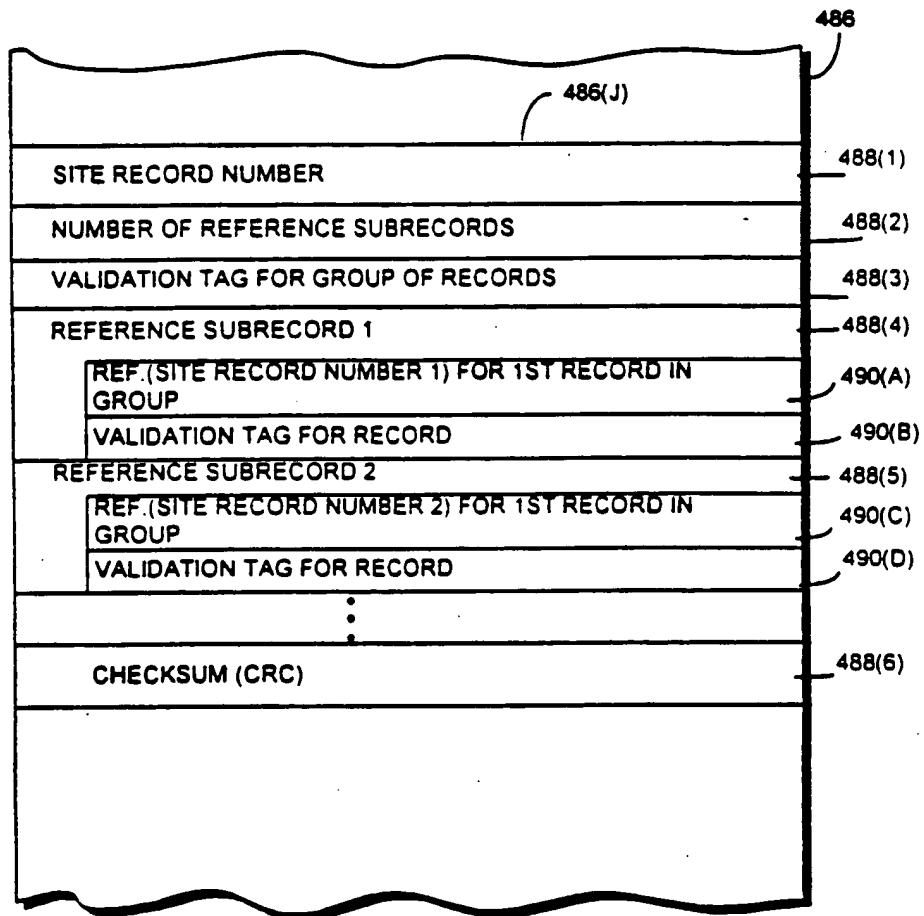


FIG. 35

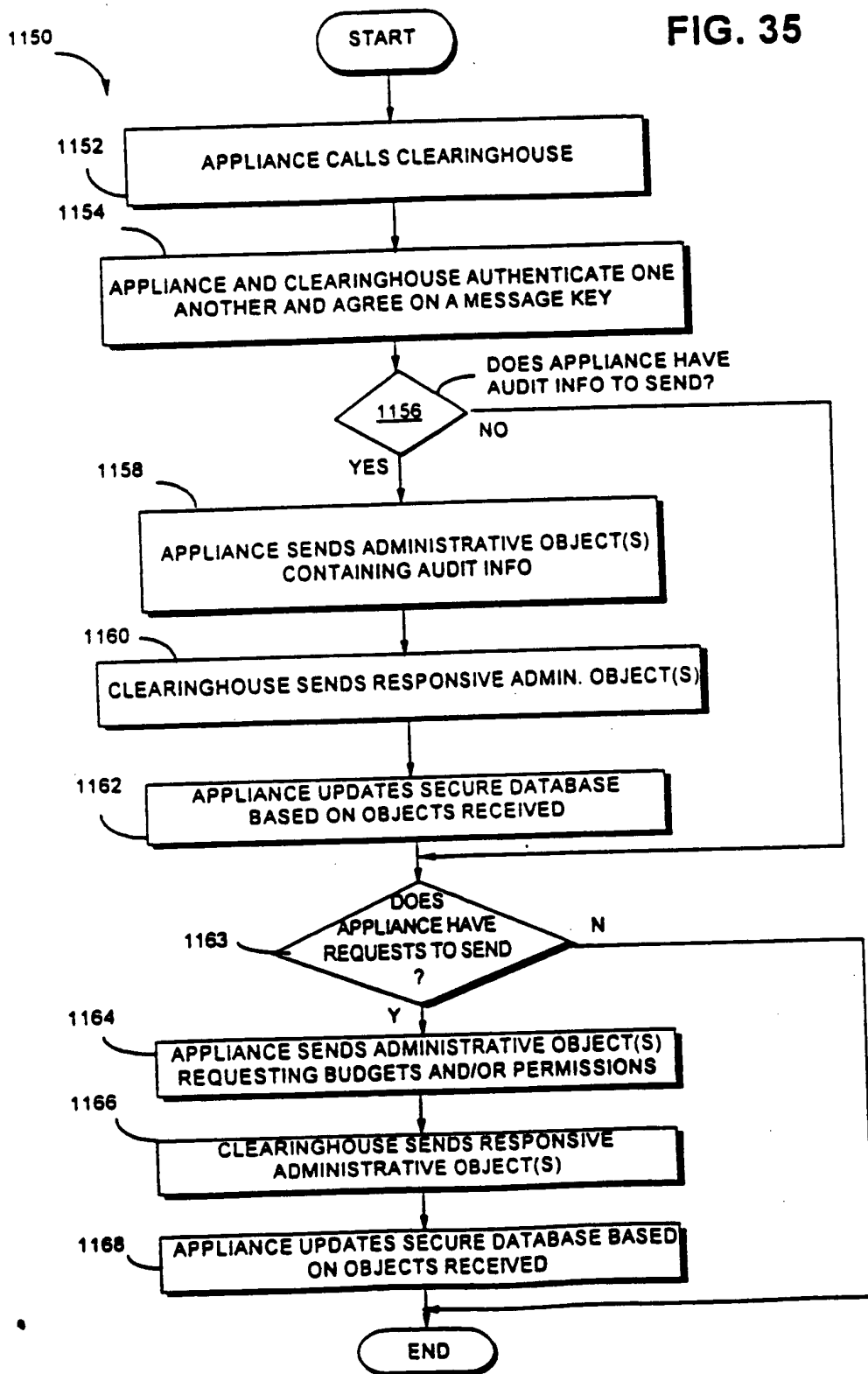


FIG. 36

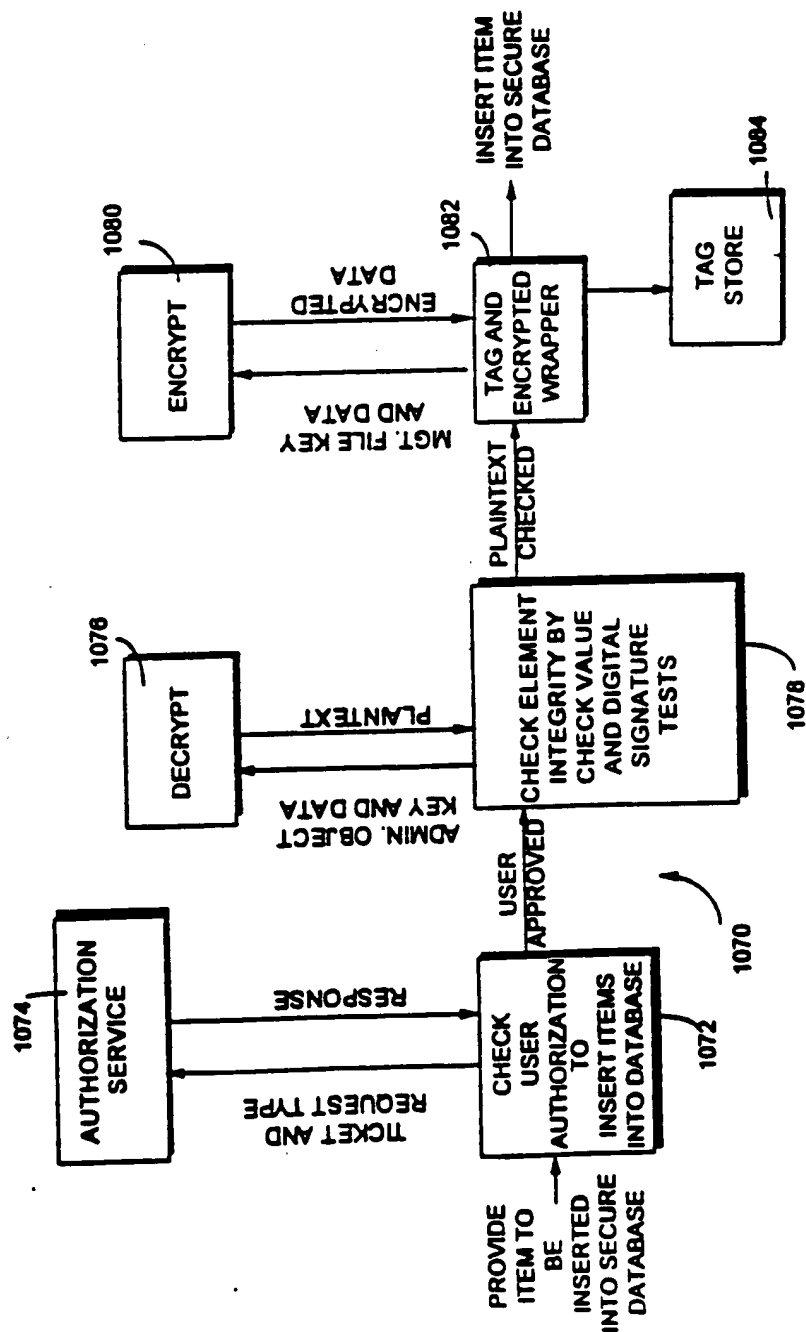


FIG. 37

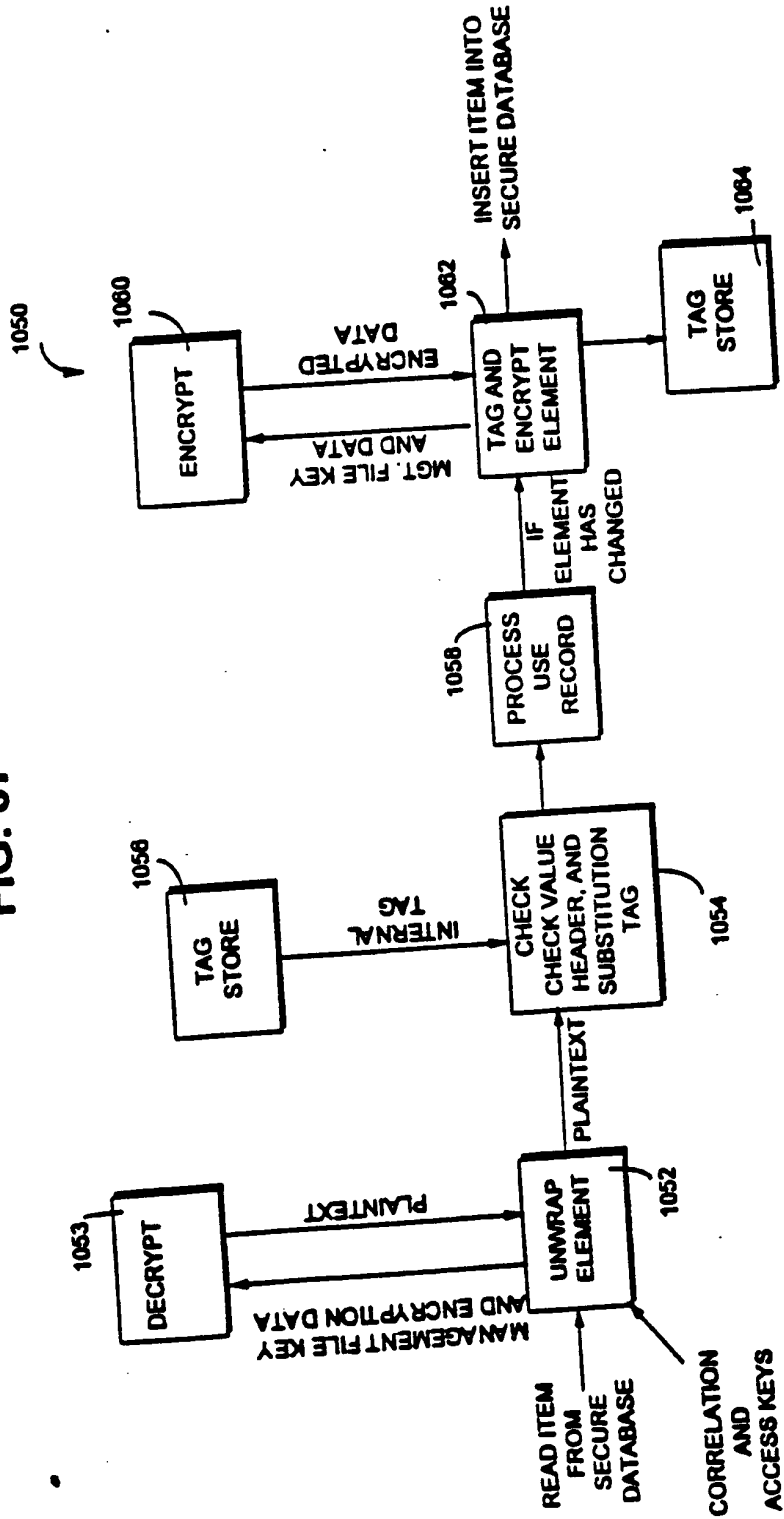


FIG. 38

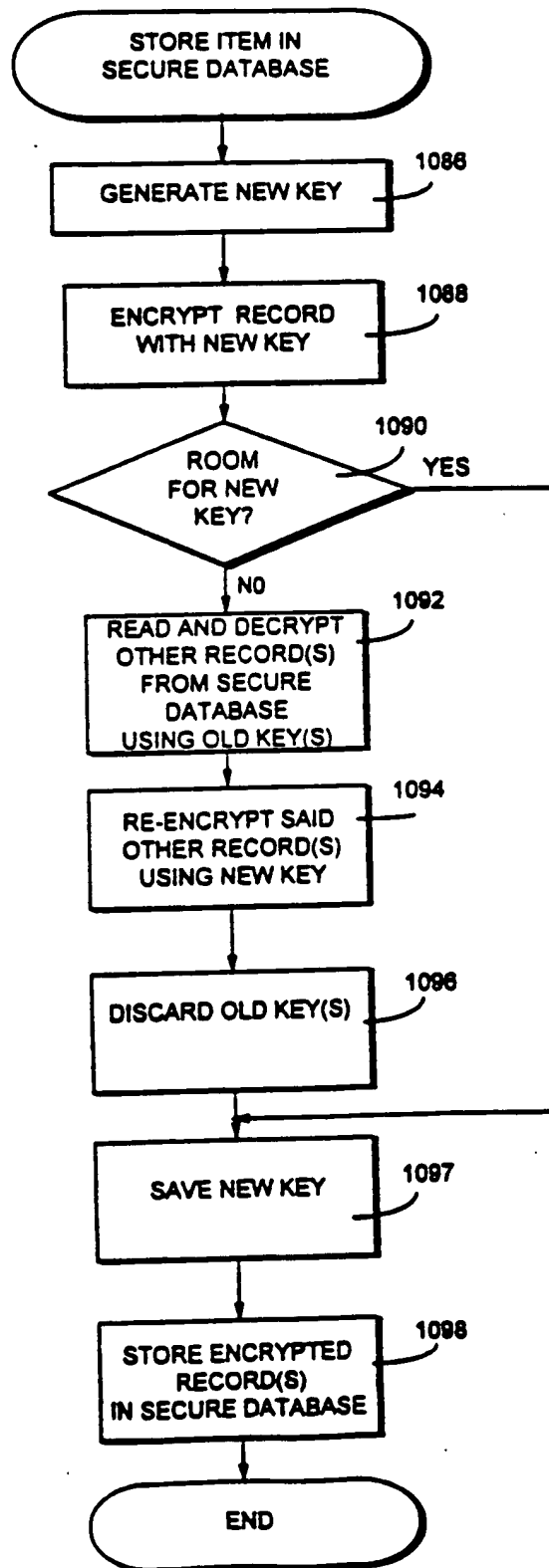


FIG. 39
BACKUP

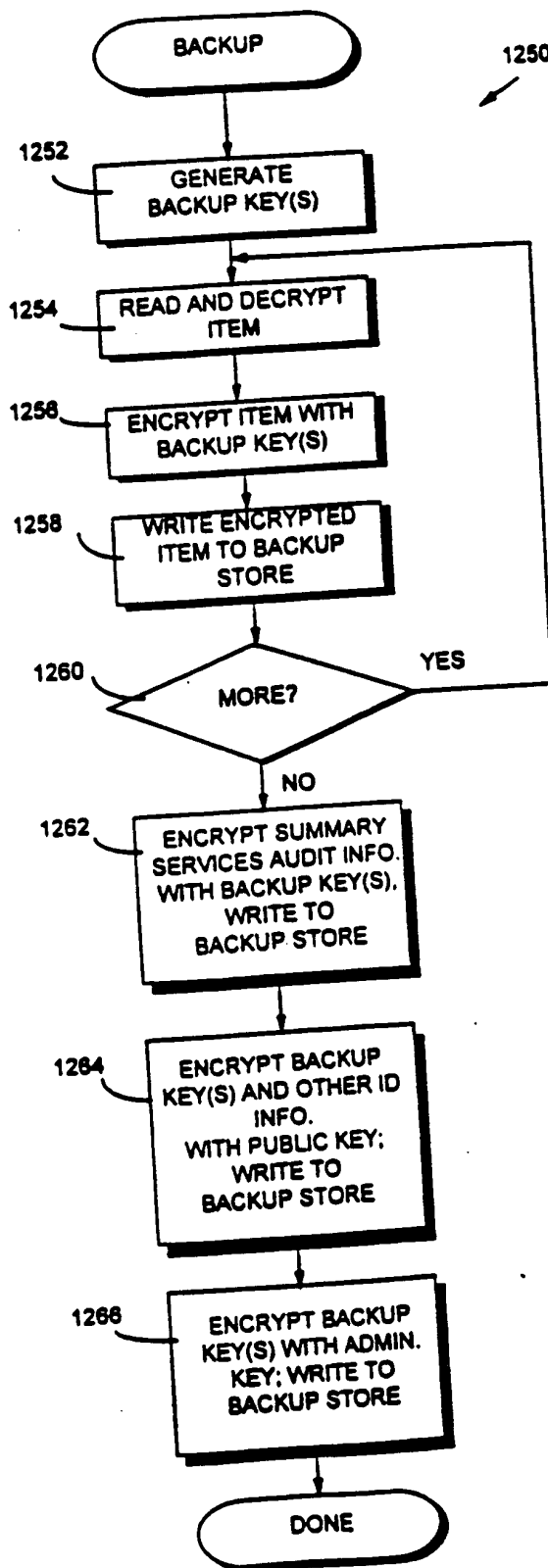
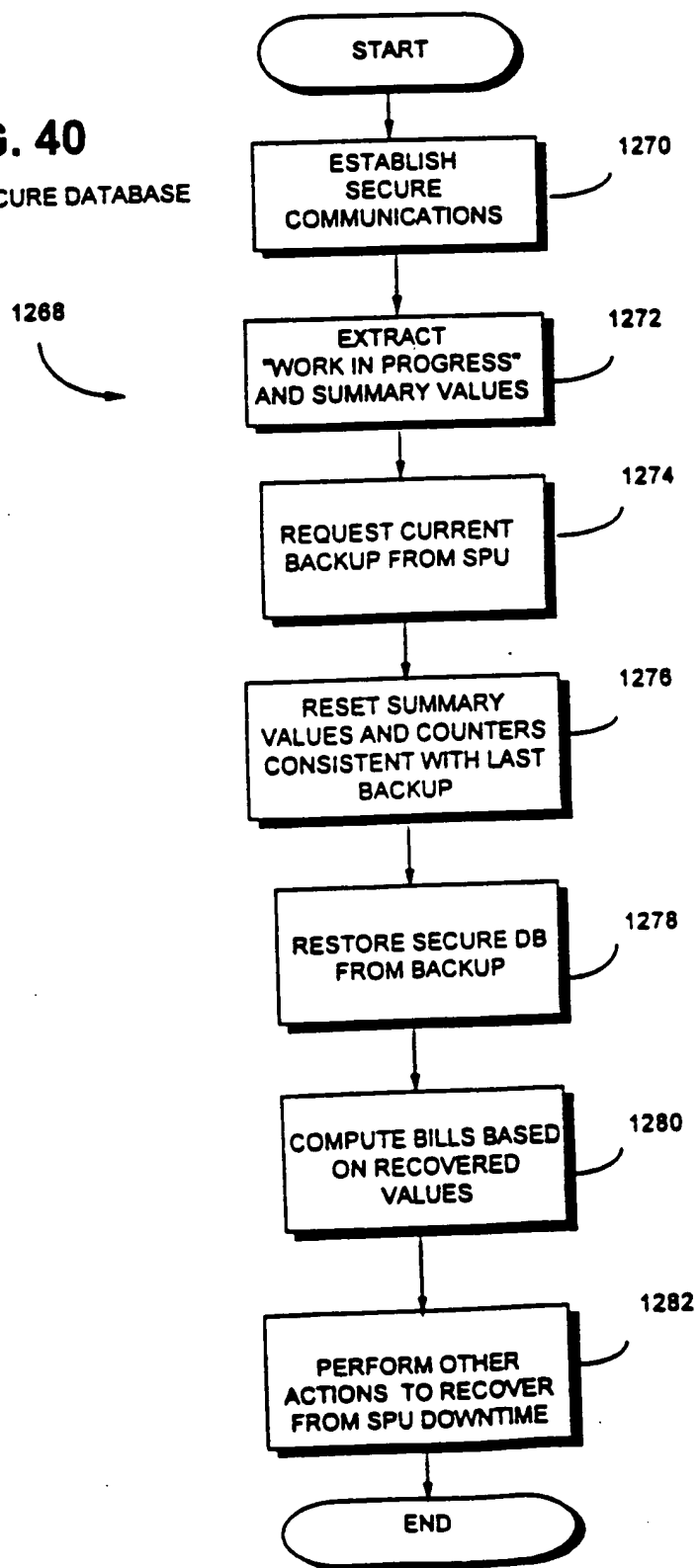


FIG. 40
RECOVER SECURE DATABASE



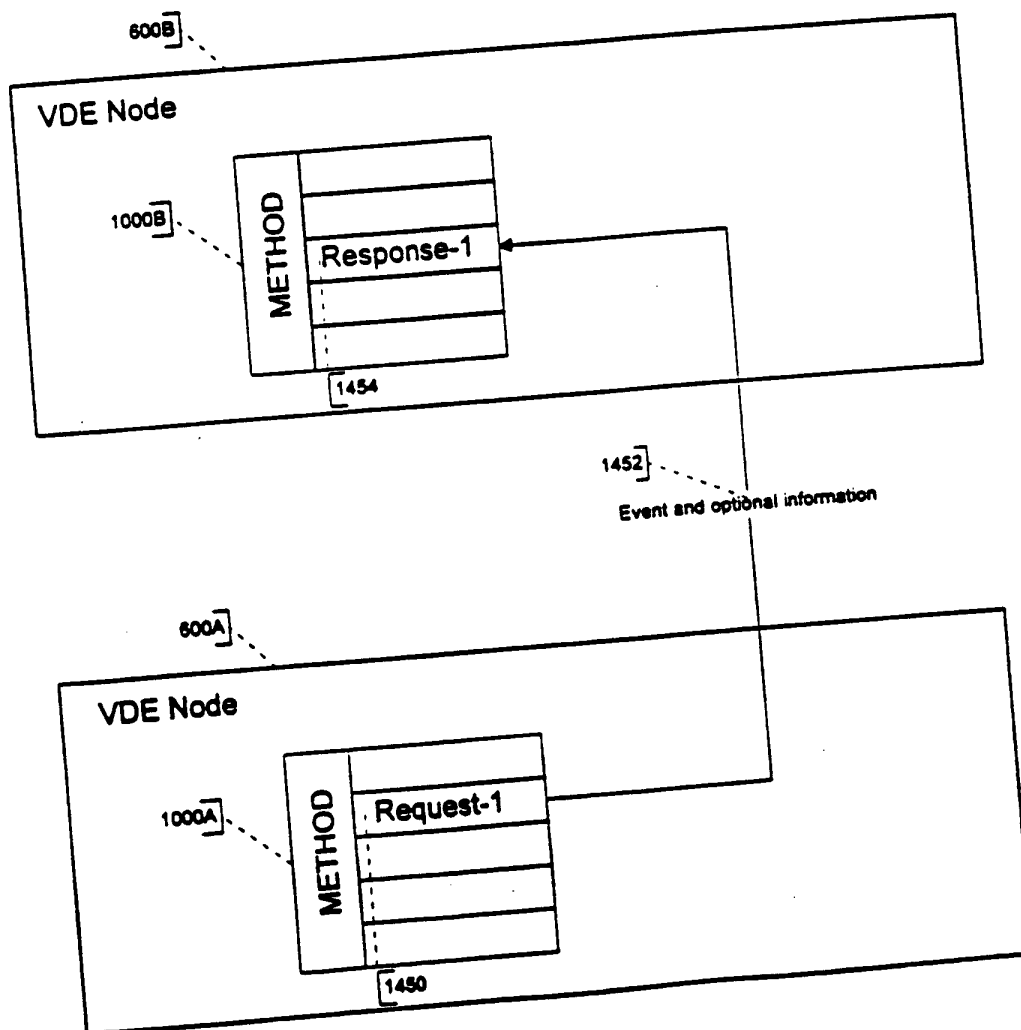


Figure 41a

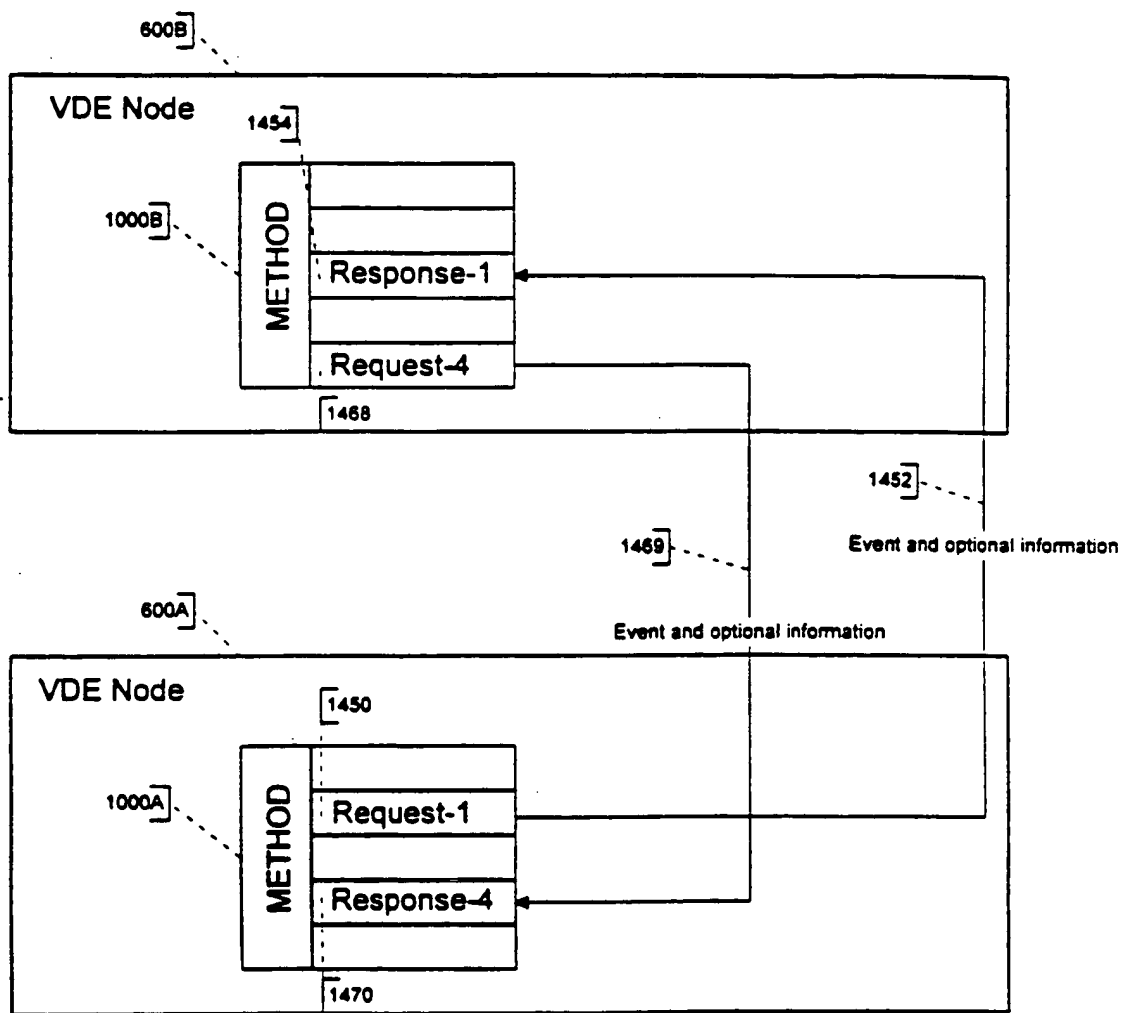


Figure 41b

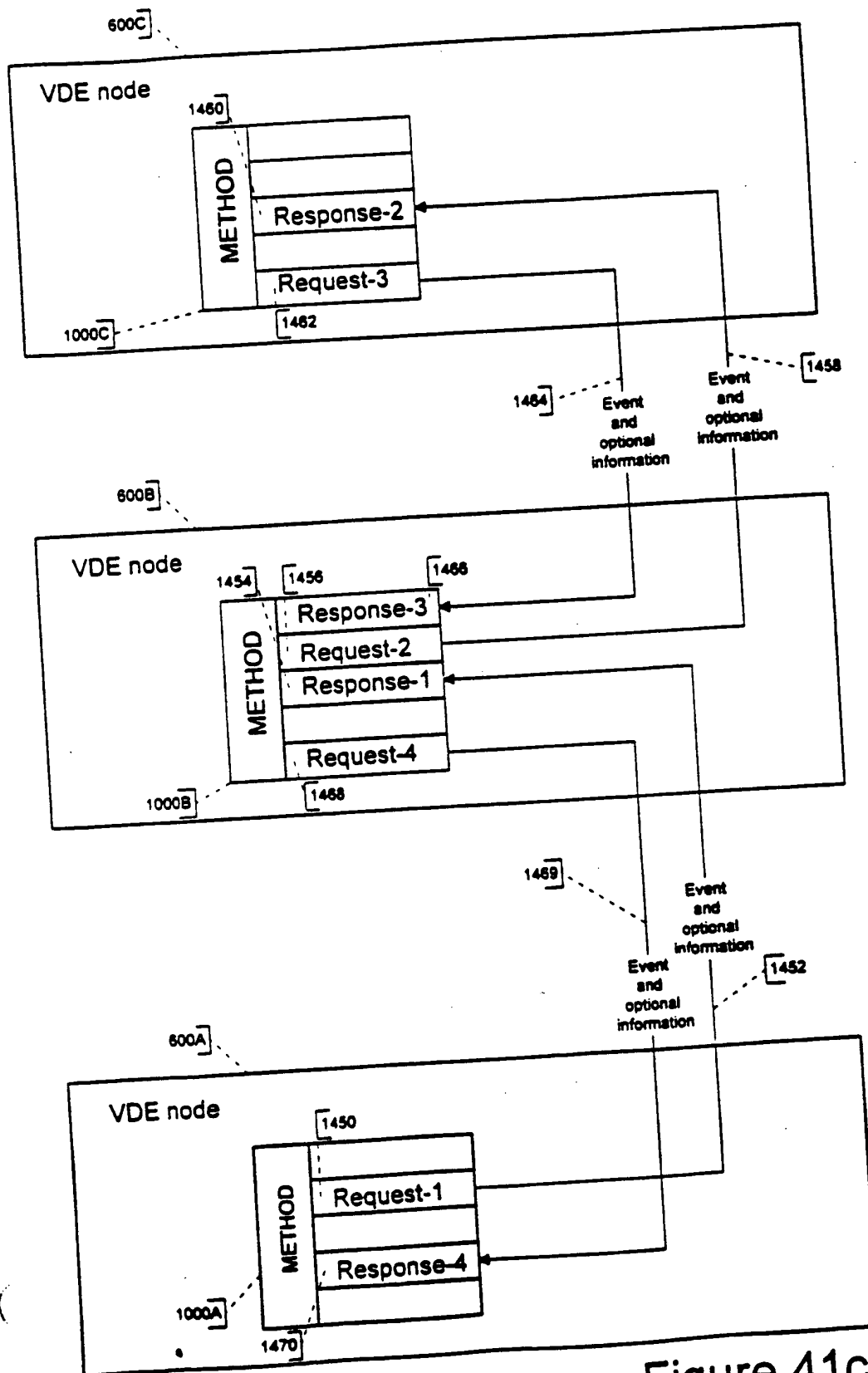


Figure 41c

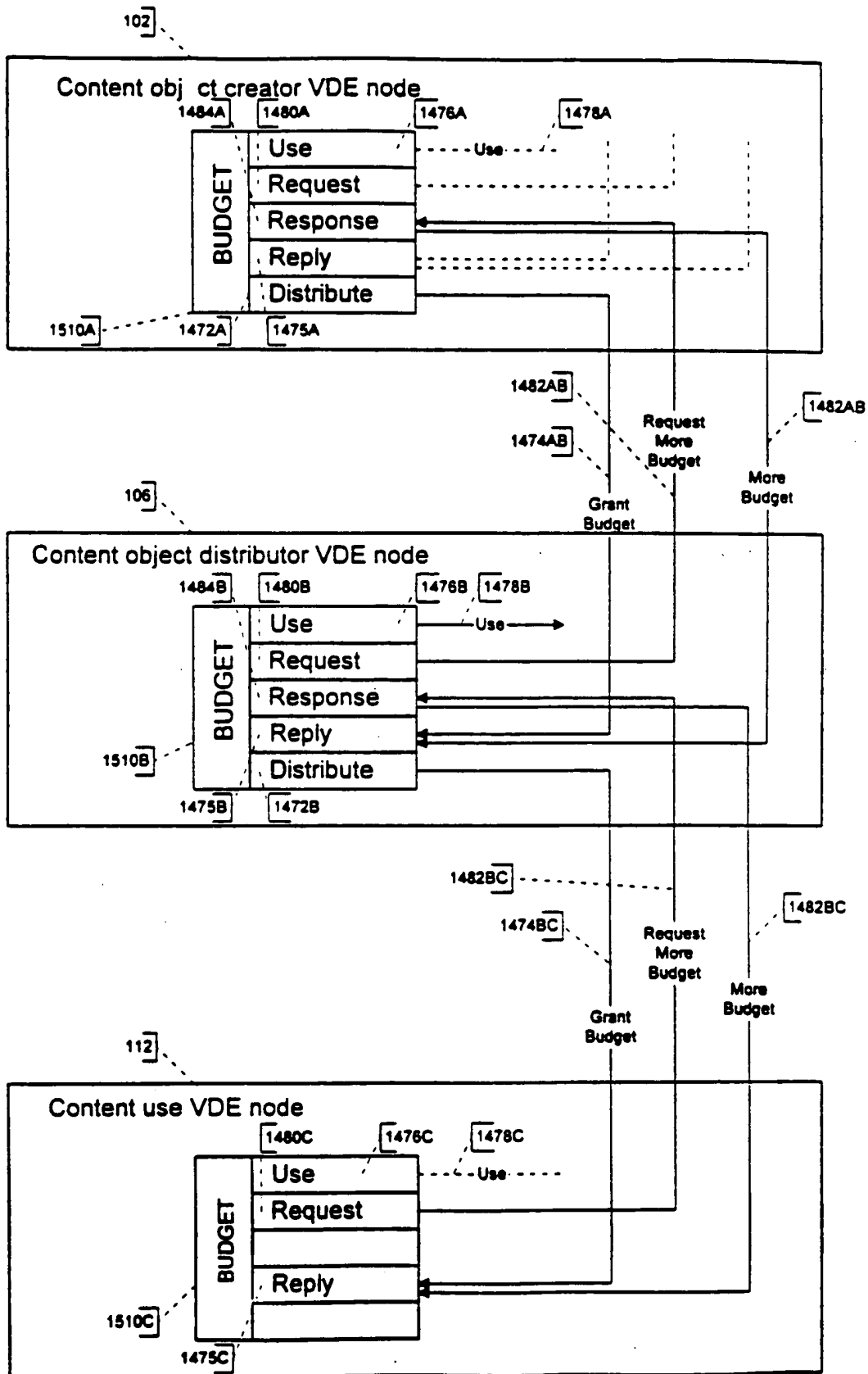


Figure 41d

BUDGET Method Use Process Flow

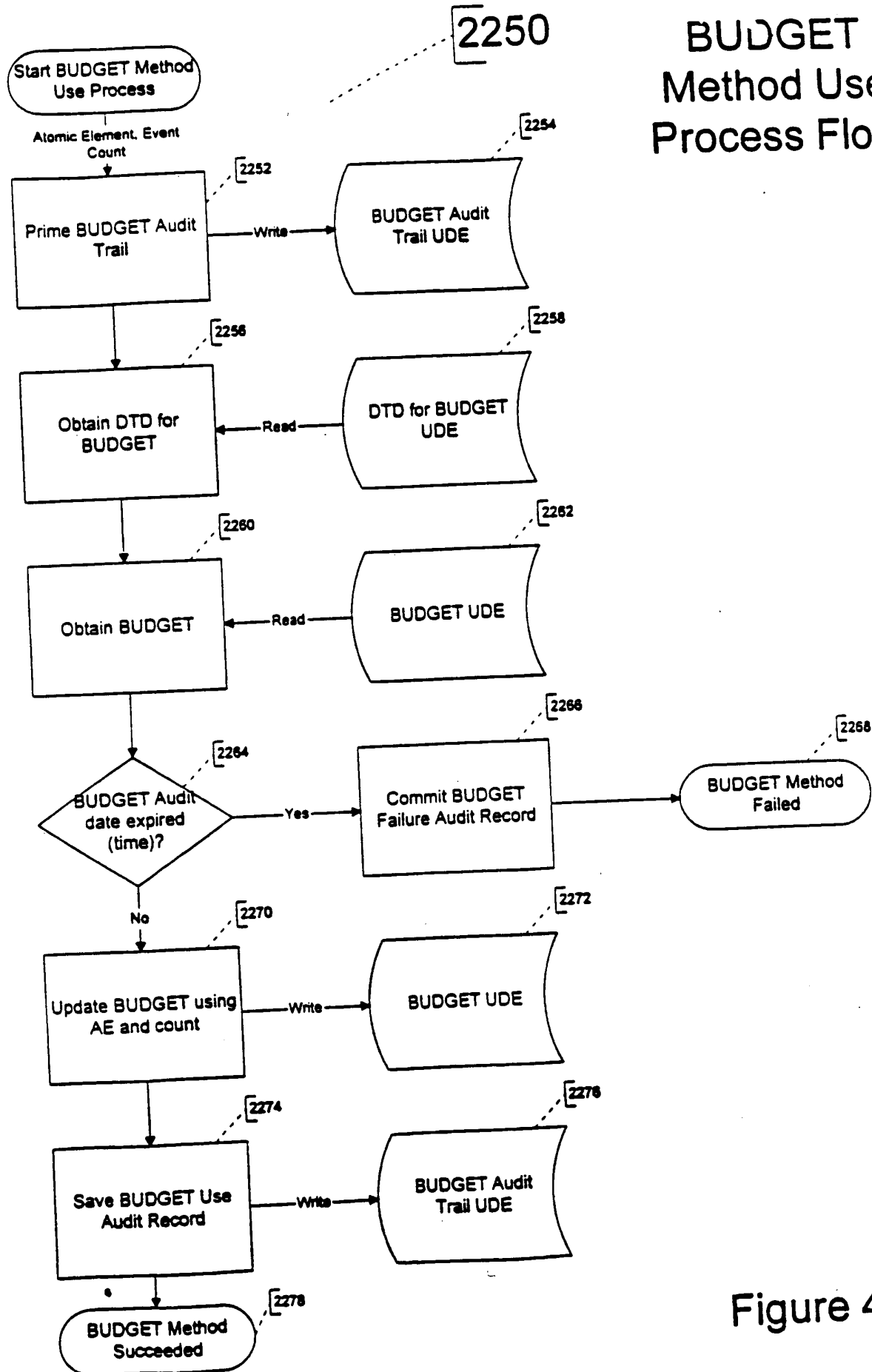


Figure 42a

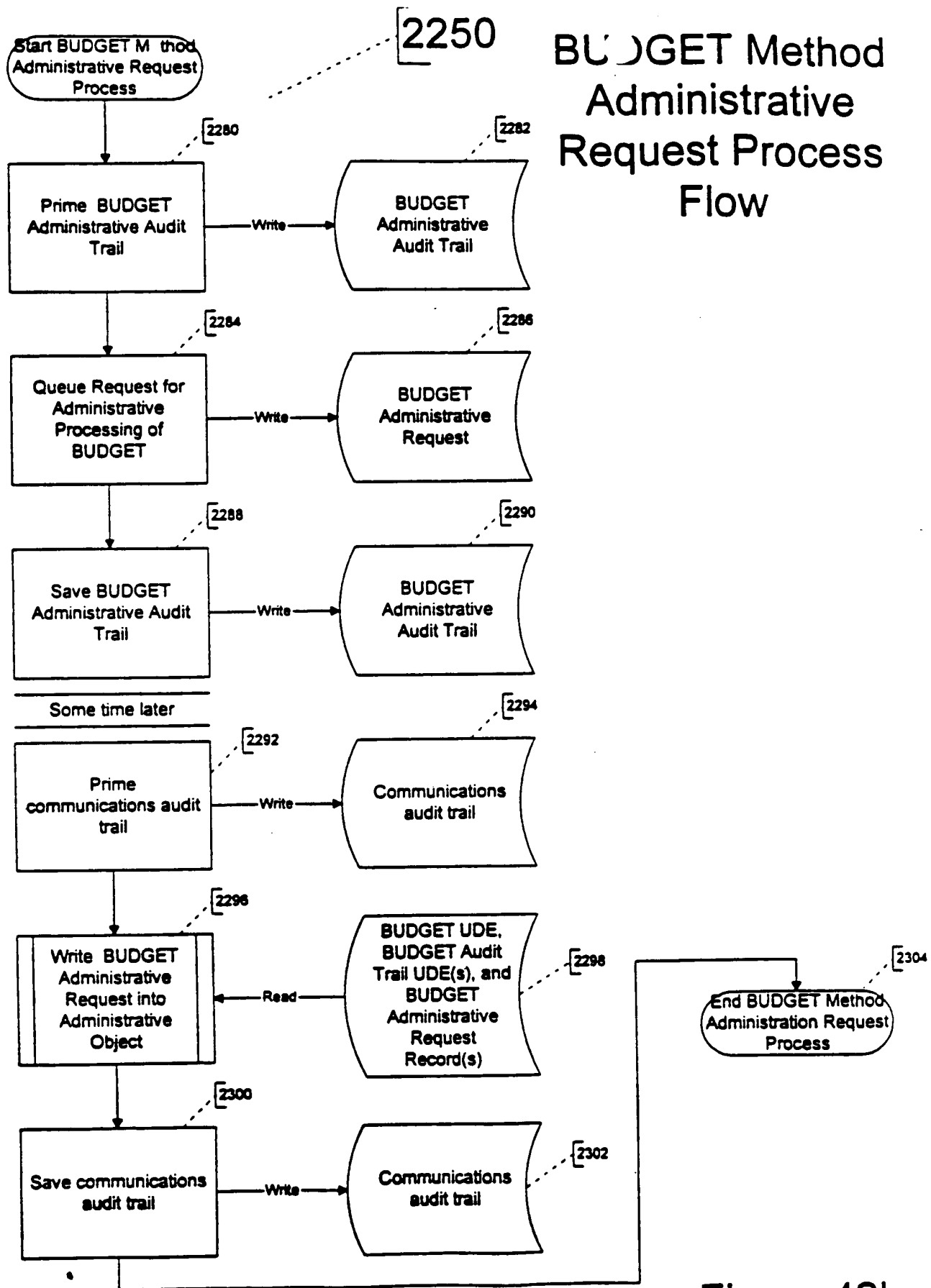


Figure 42b

E JDGET Method Administrative Response Process Flow

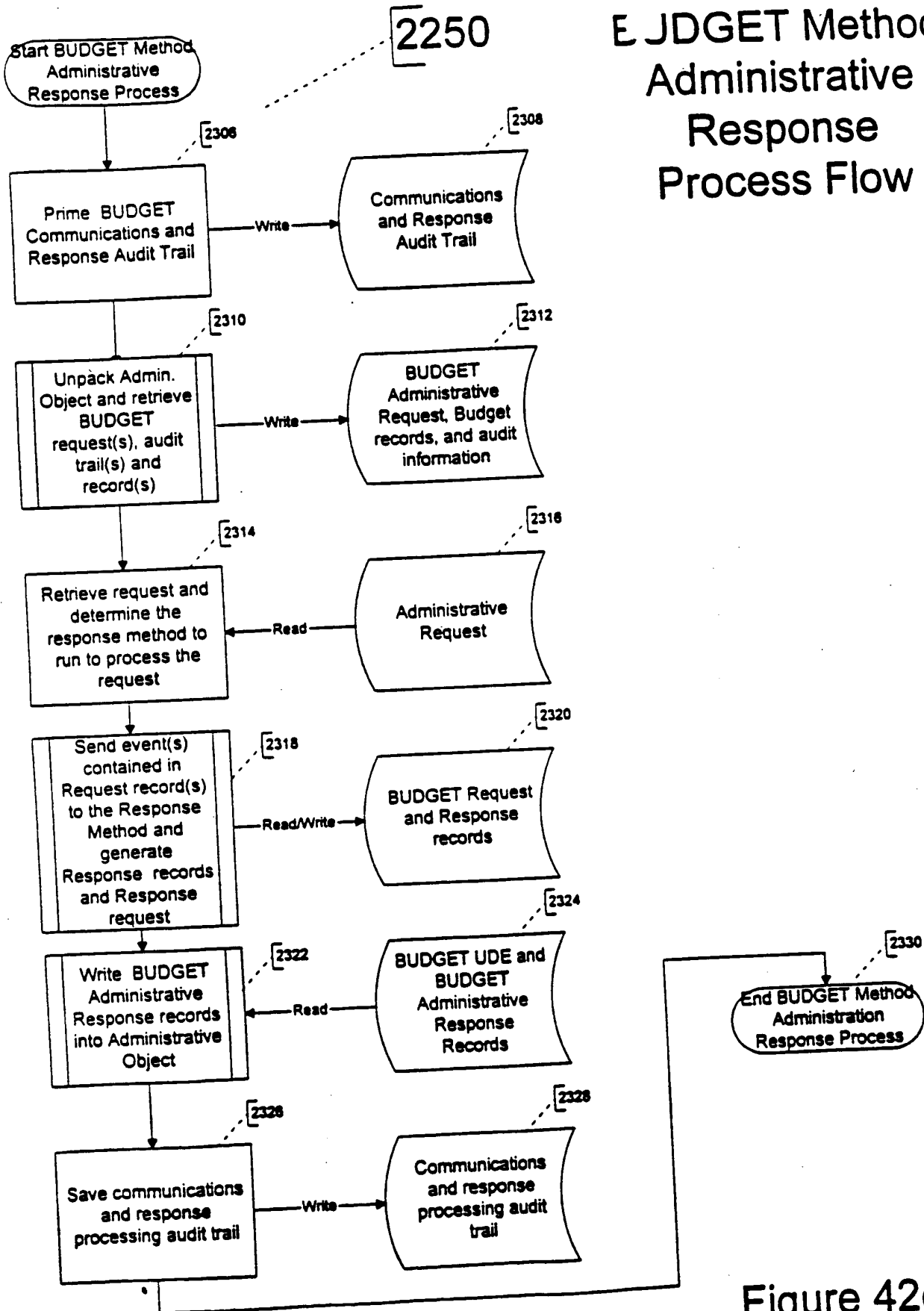
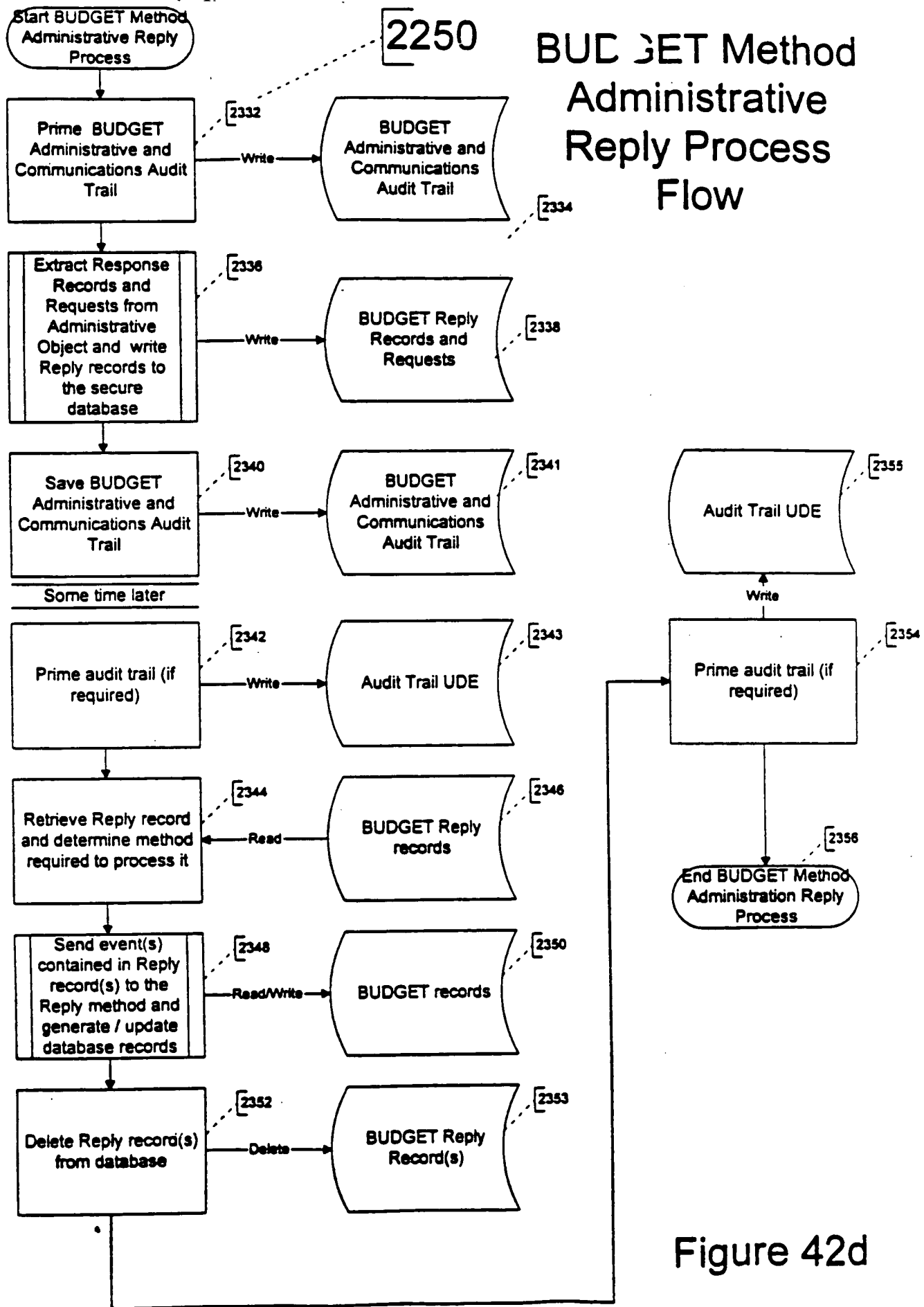


Figure 42c



REGISTER Method Use Process Flow

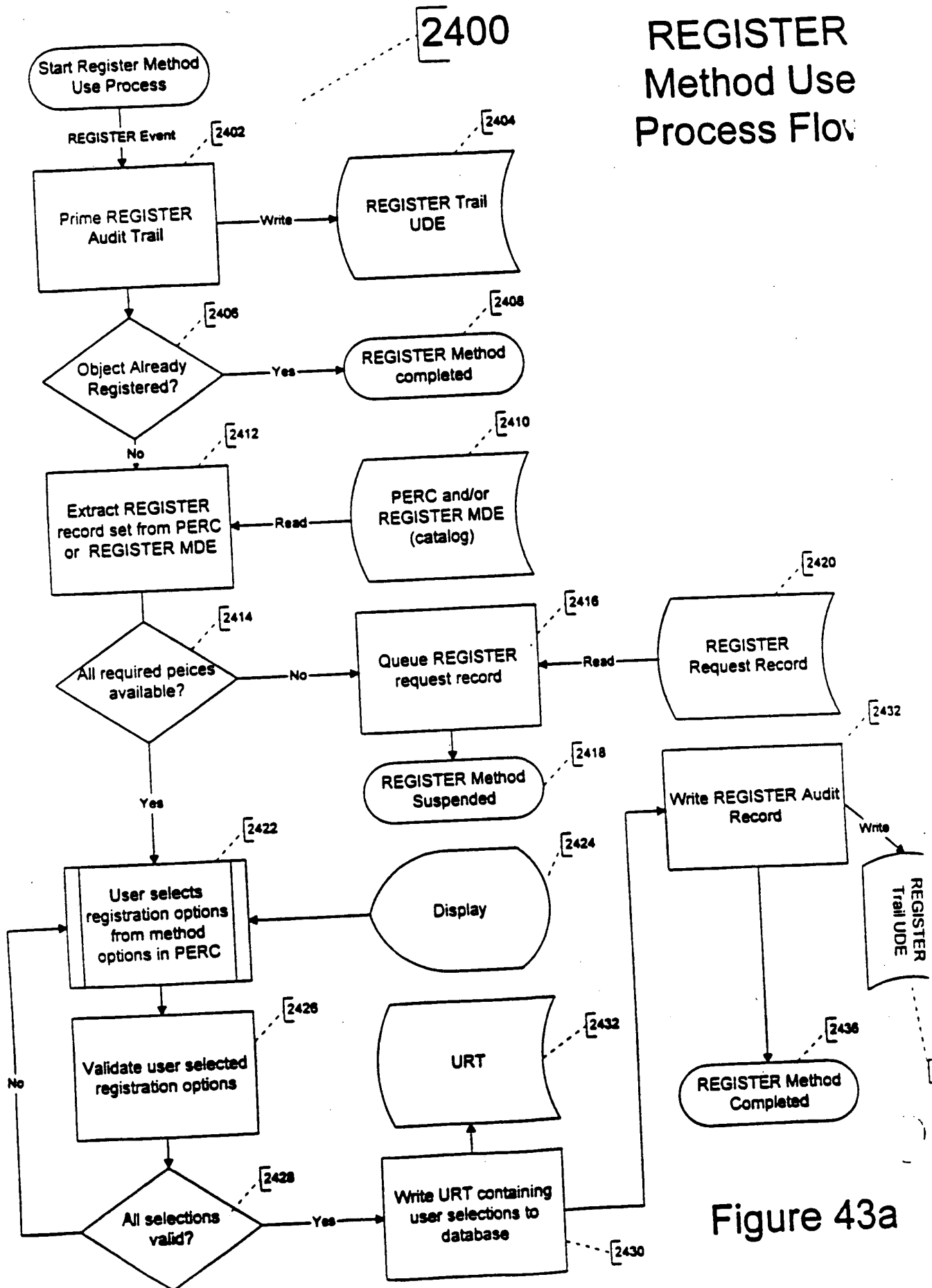


Figure 43a

REGISTER Method Administrative Request Process Flow

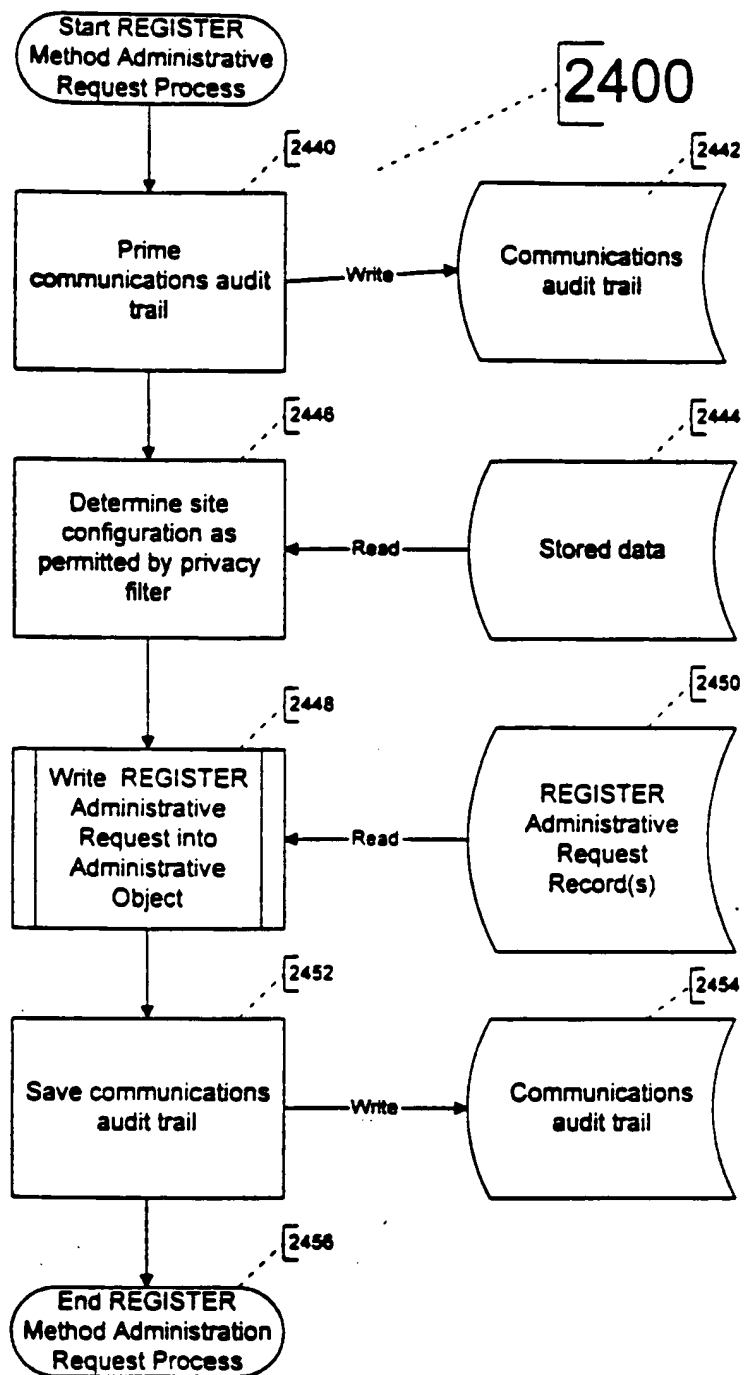


Figure 43b

REGISTER Method Administrative Response Process Flow

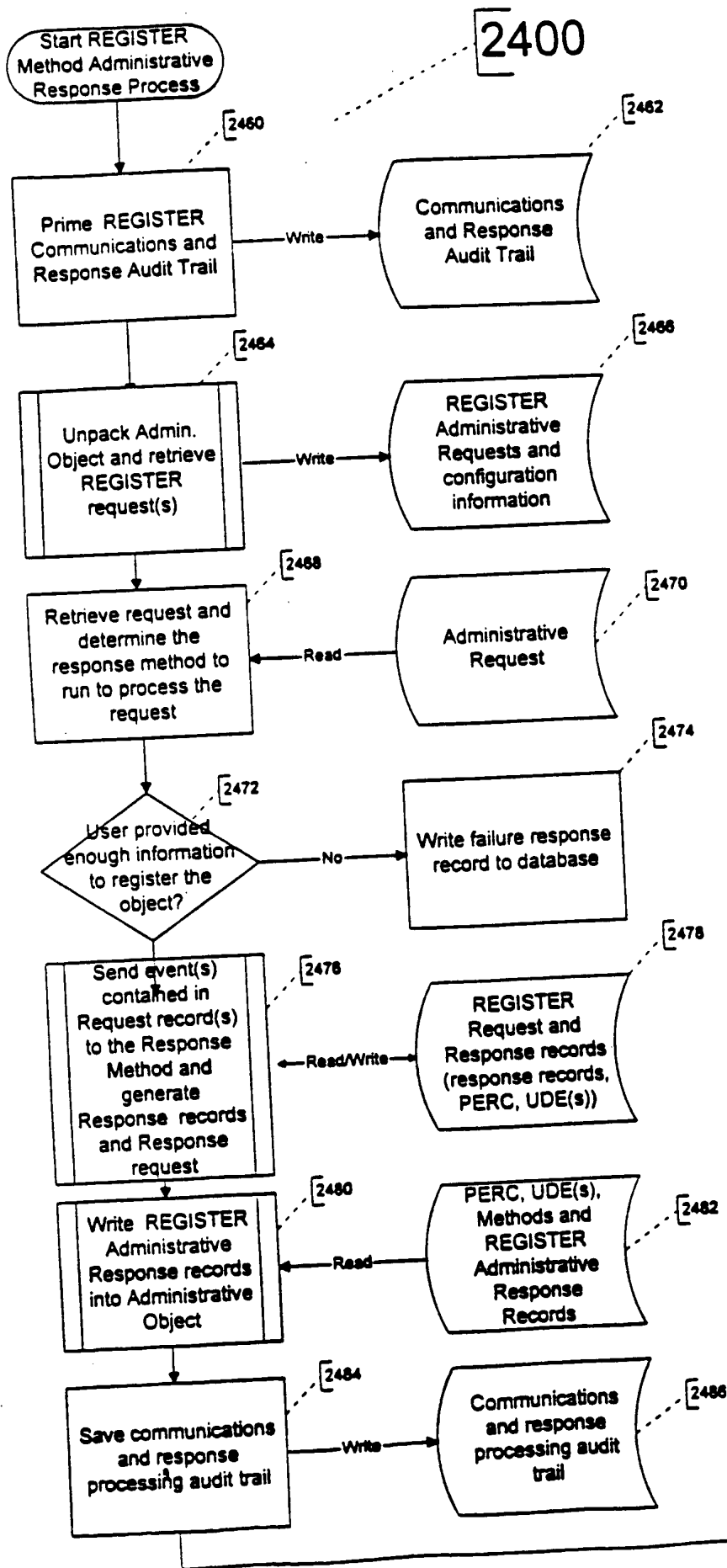


Figure 43c

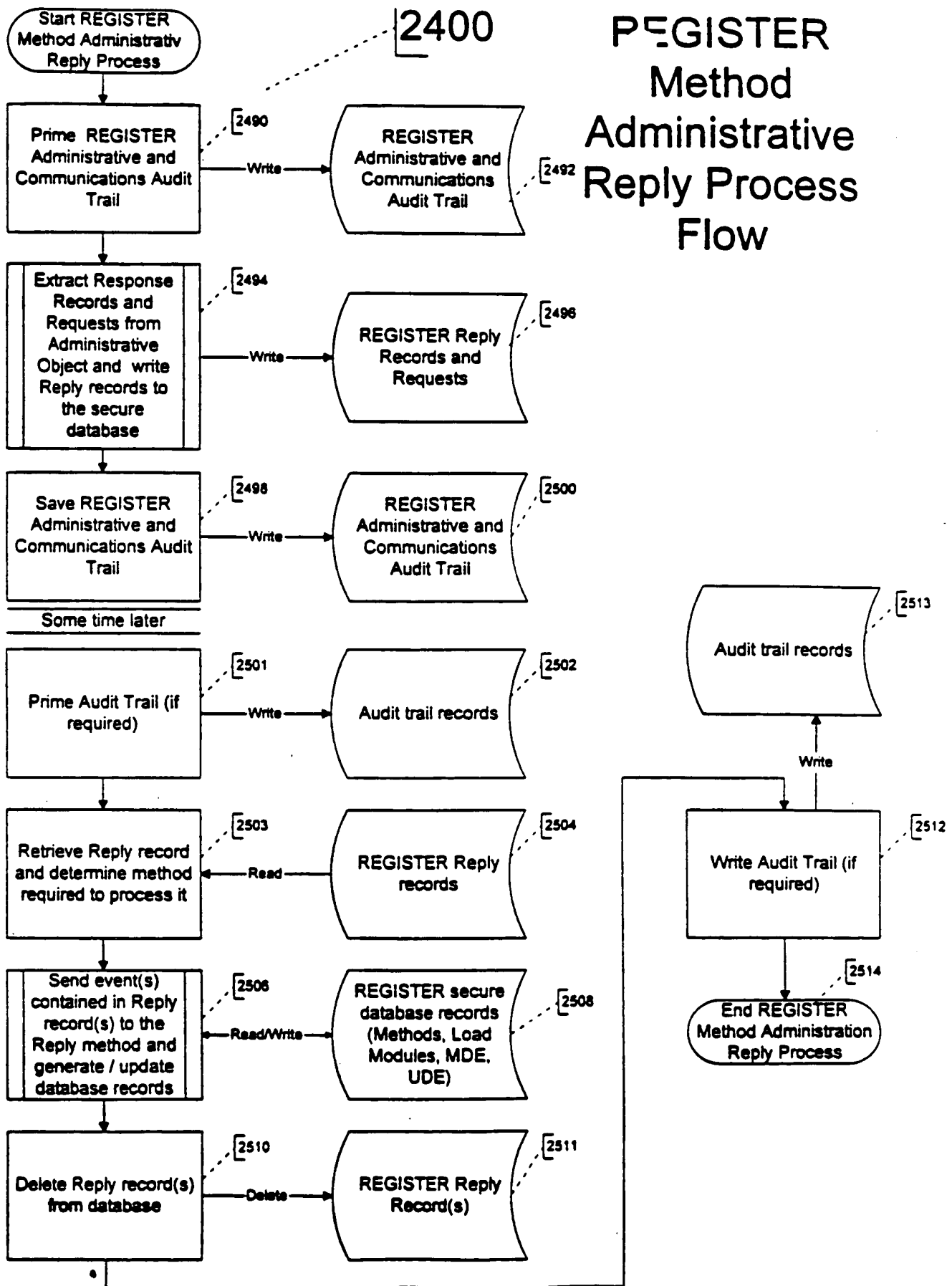


Figure 43d

AUDIT Method Administrative Request Process Flow

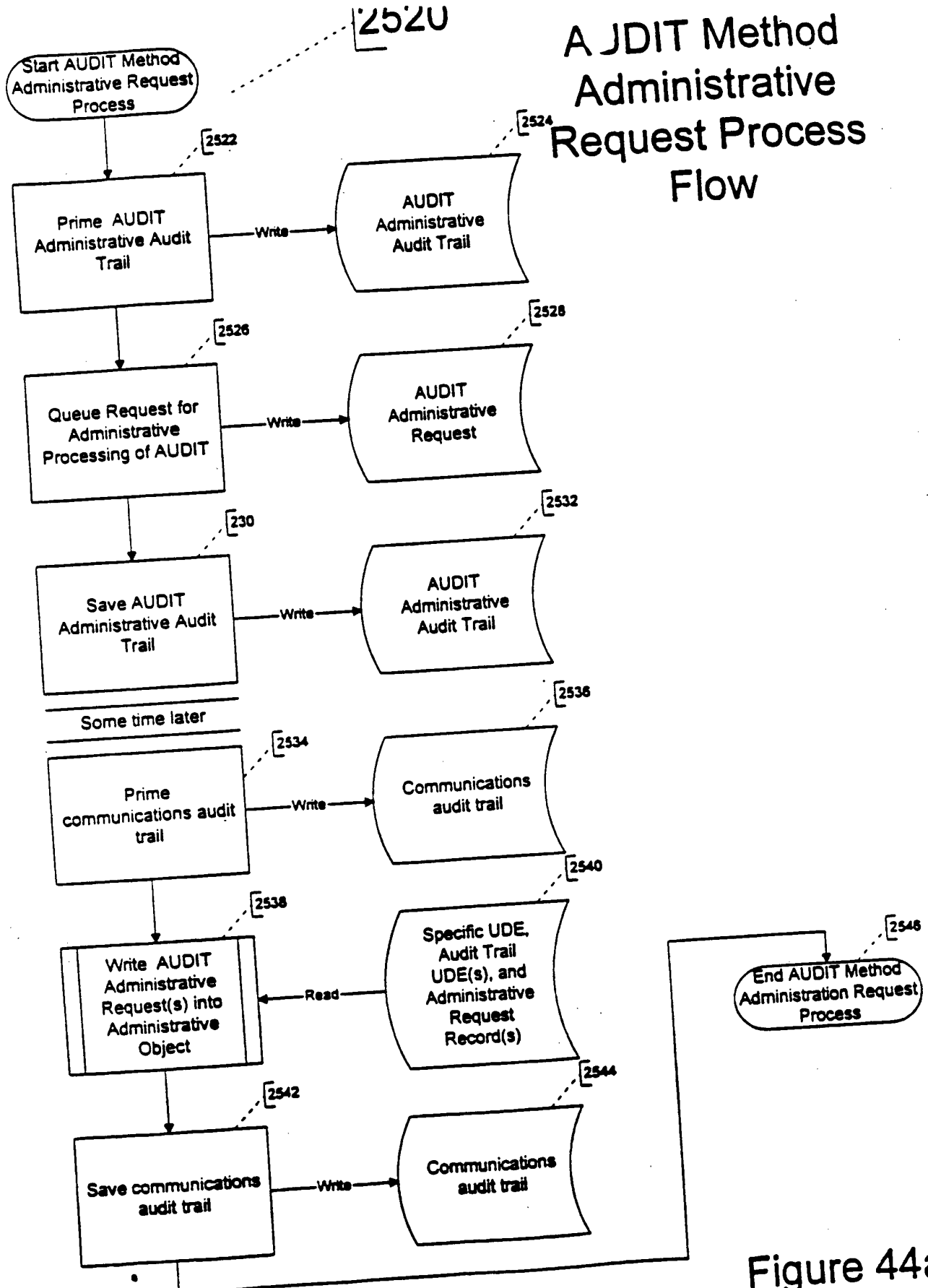


Figure 44a

AUDIT Method Administrative Response Process Flow

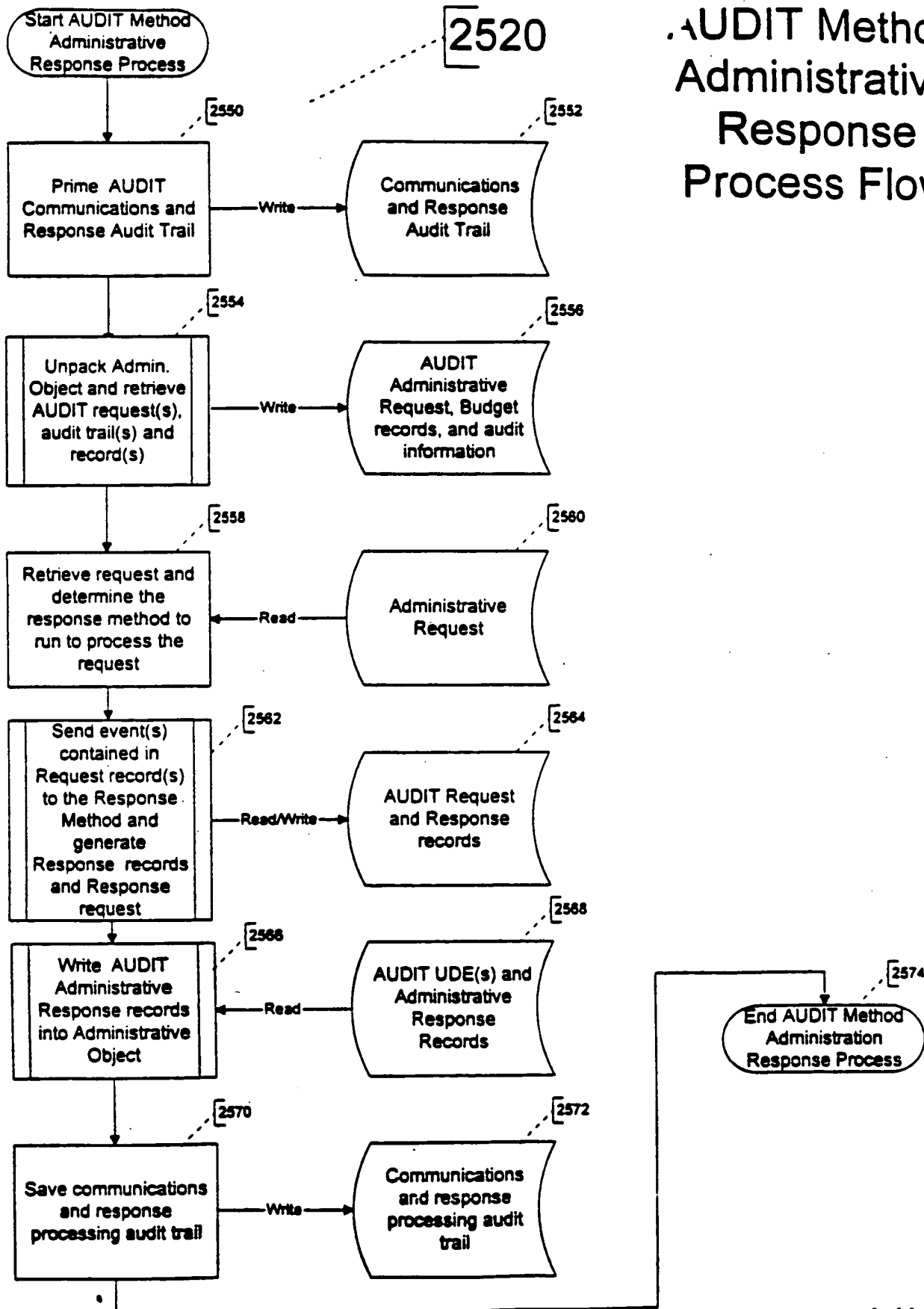


Figure 44b

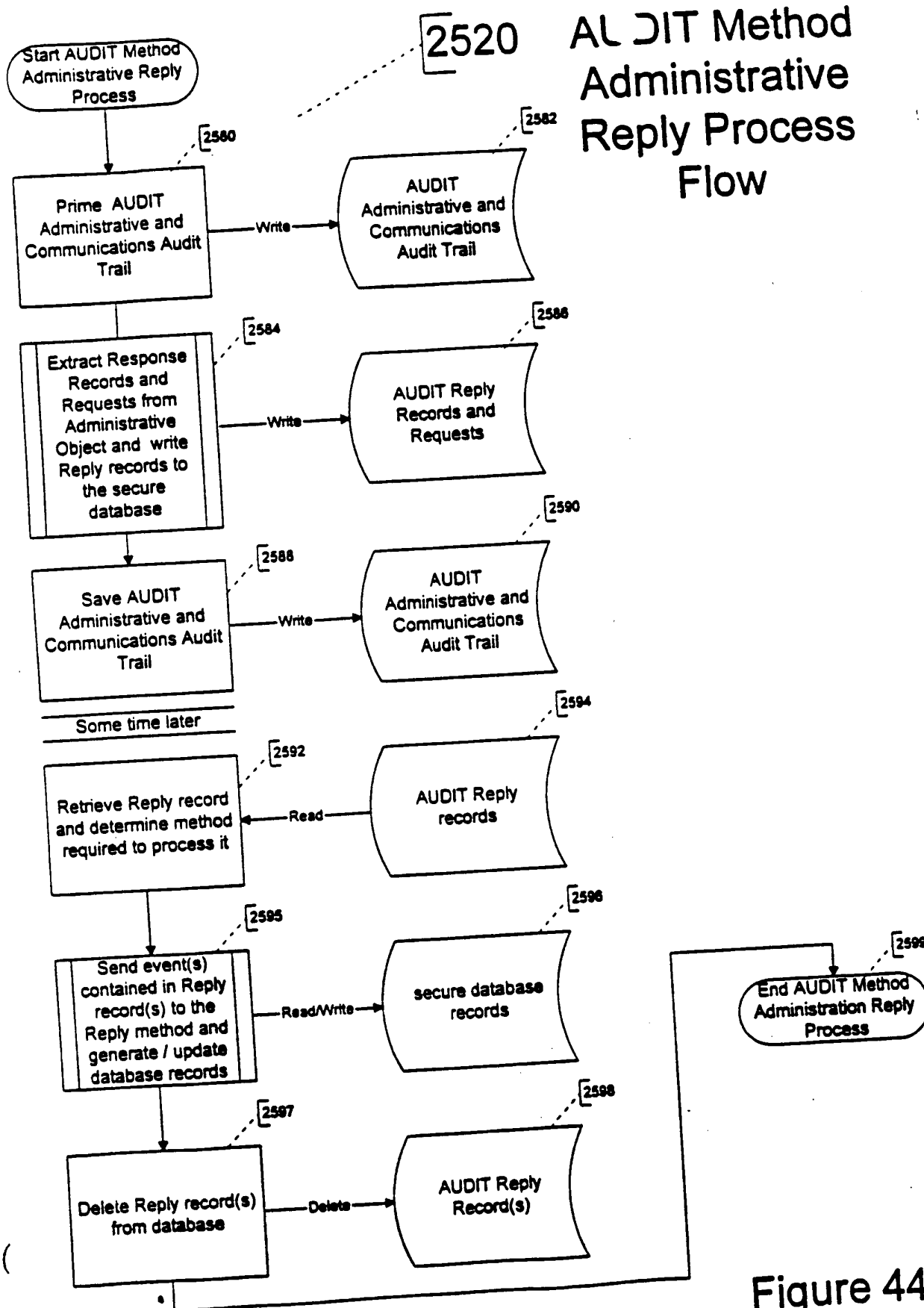


Figure 44c

FIG. 45

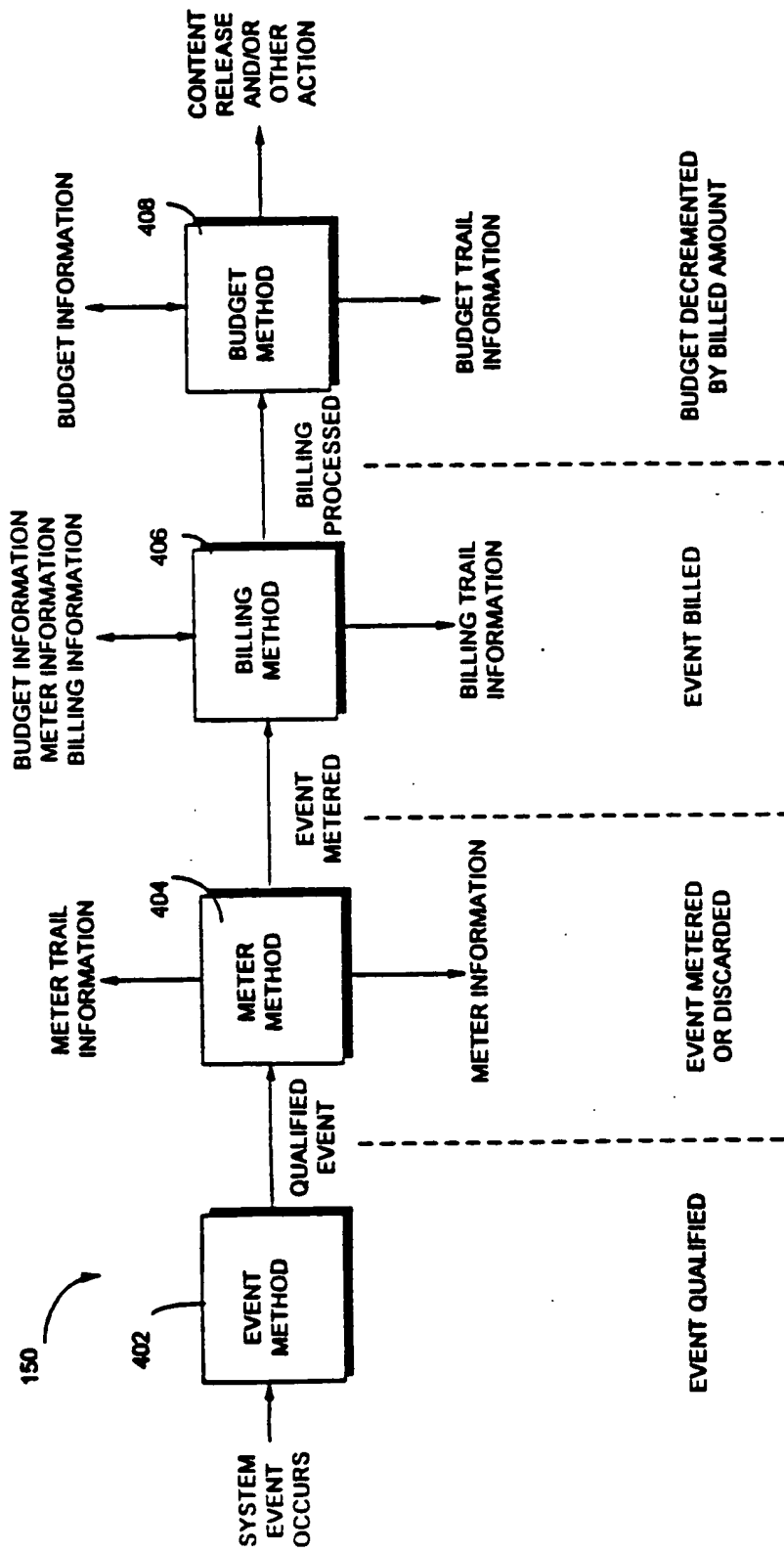


FIG. 46

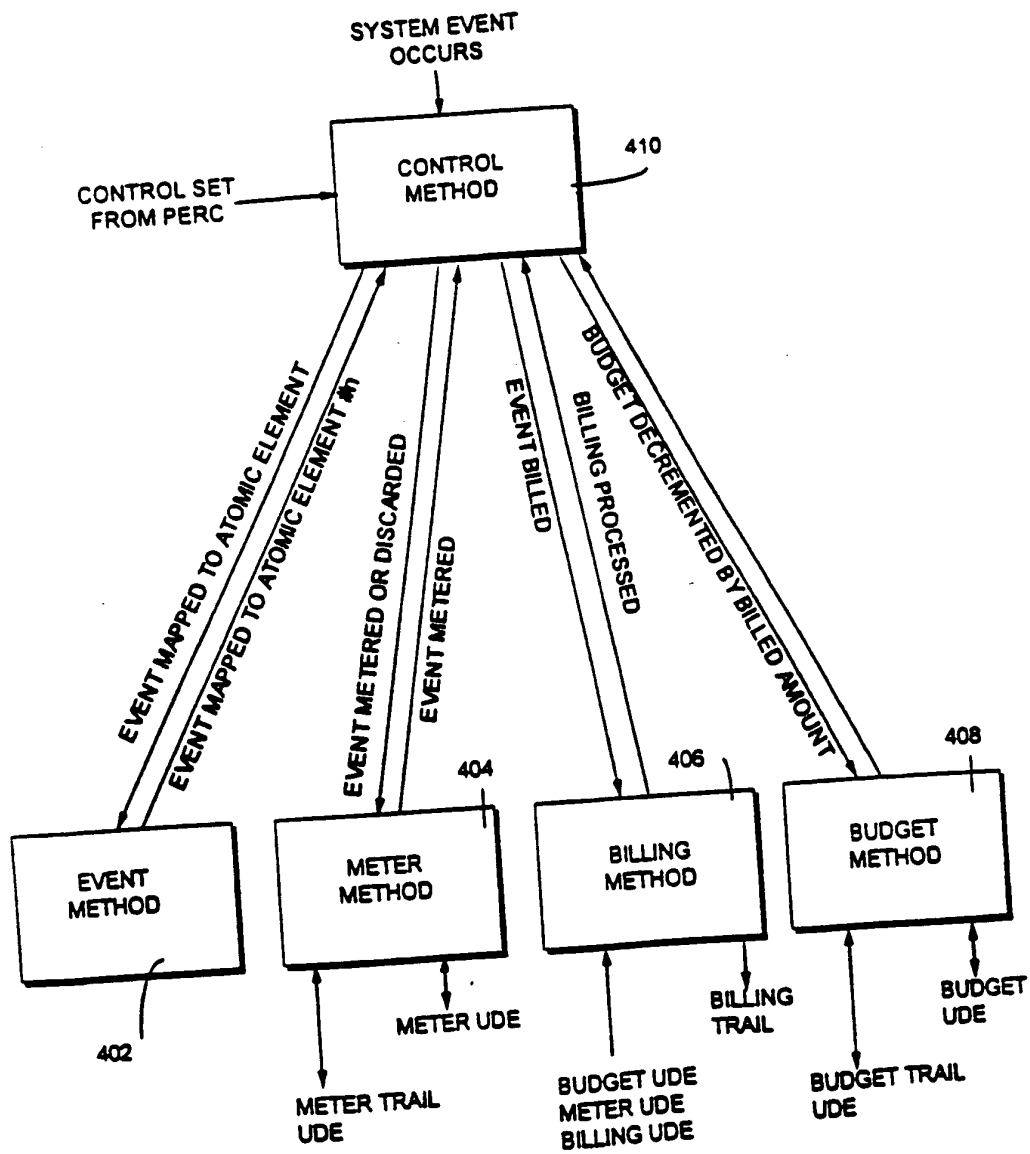
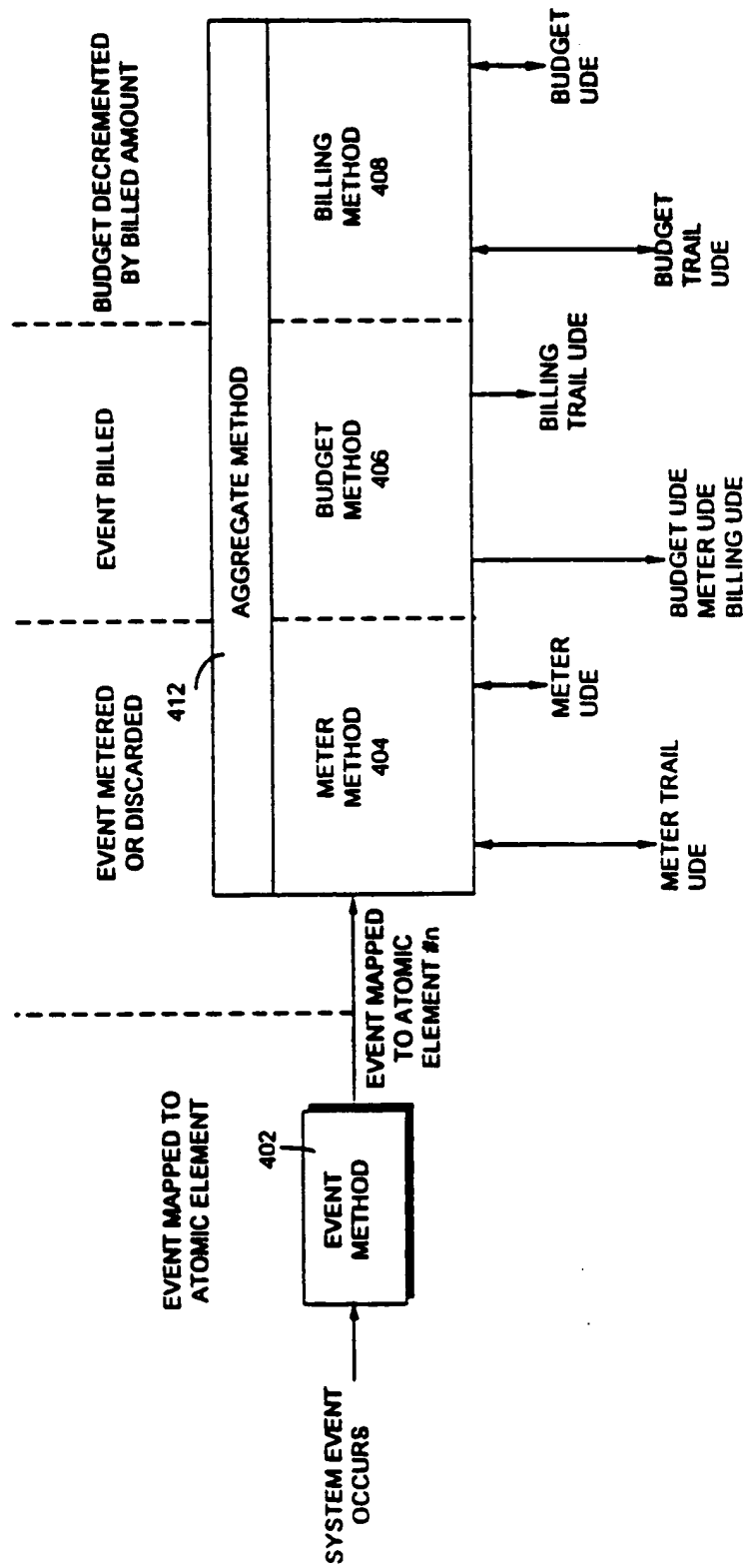


FIG. 47



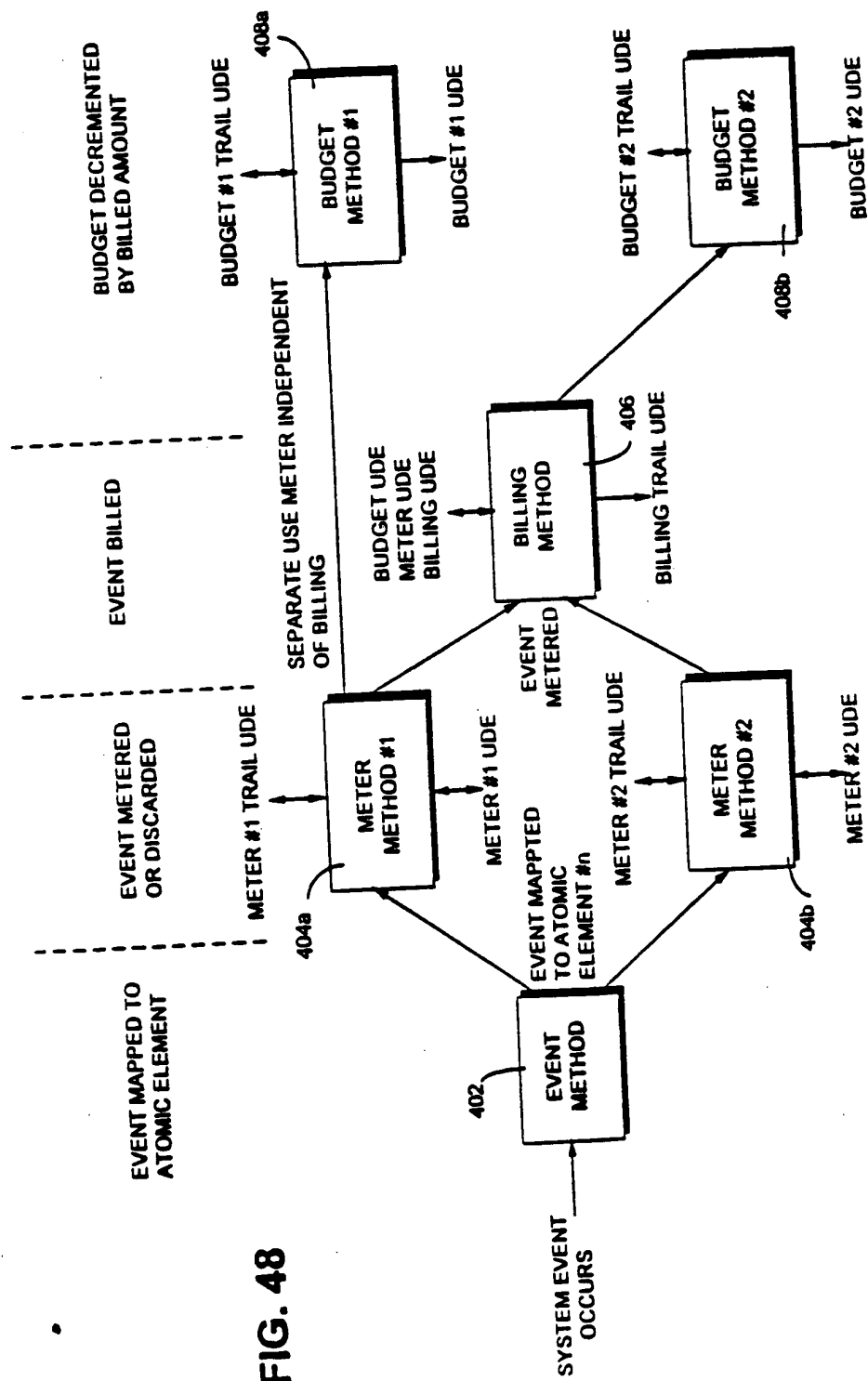


FIG. 48

OPEN Method Use Process Flow

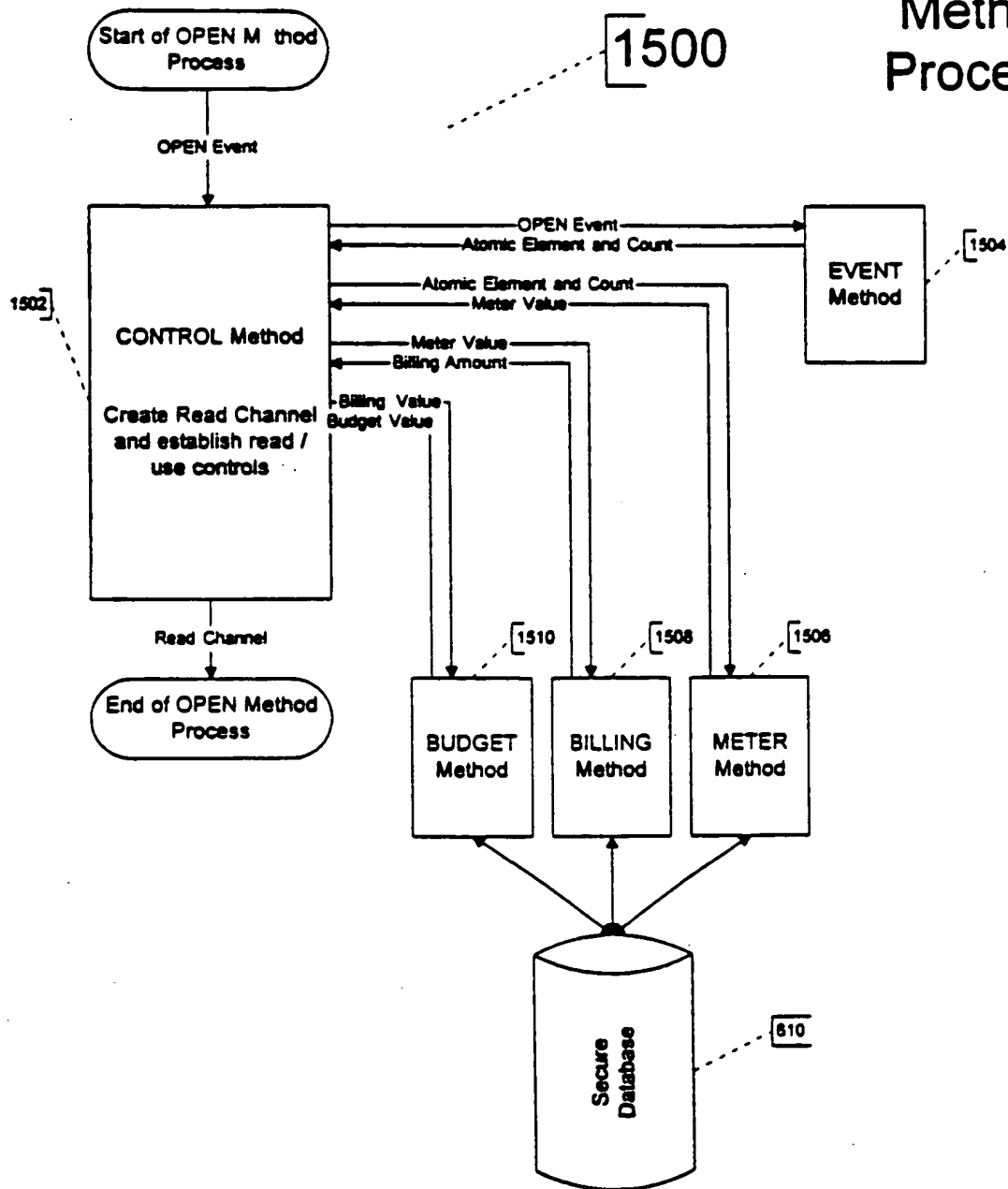


Figure 49

1500

1502

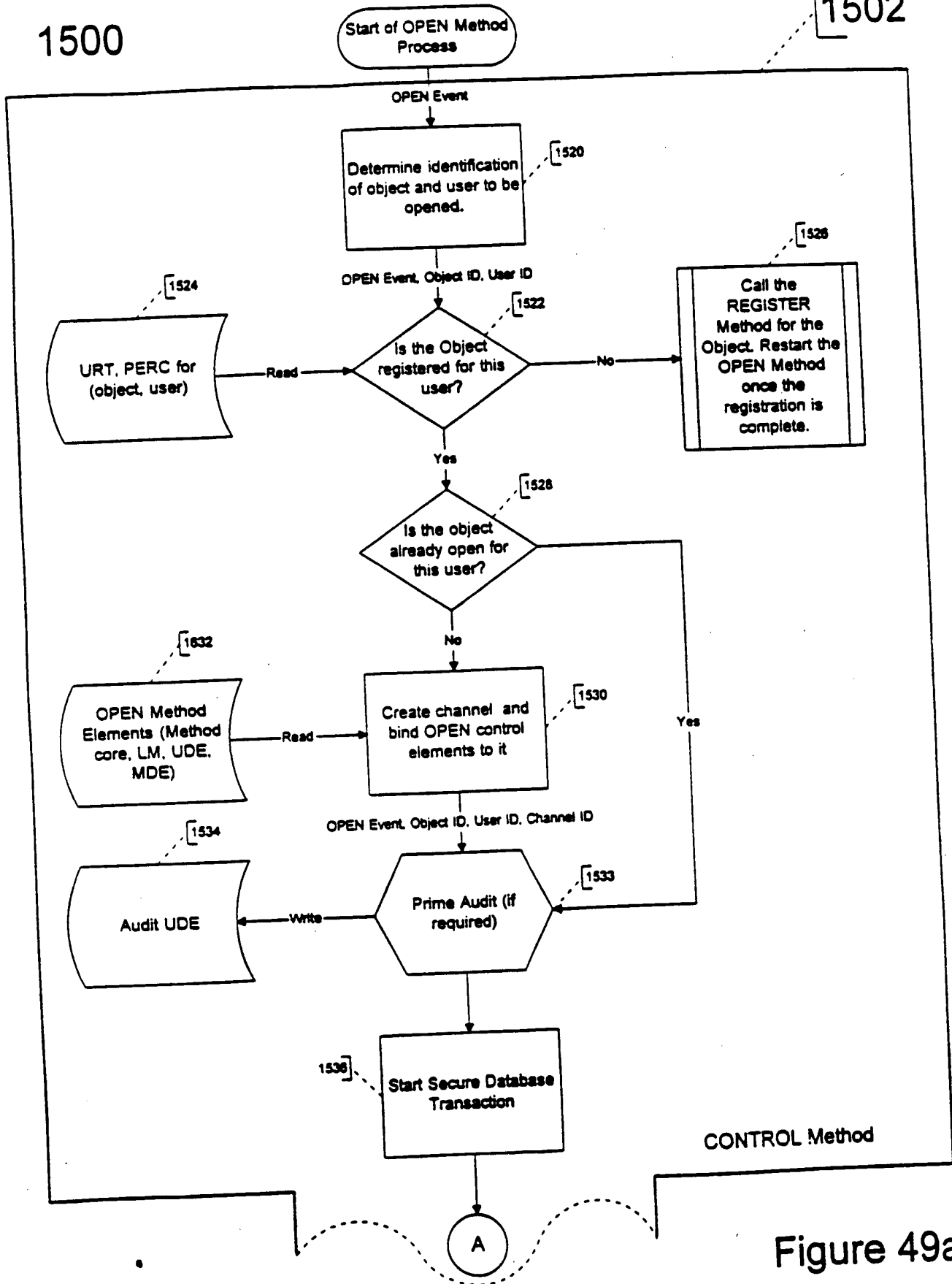


Figure 49a

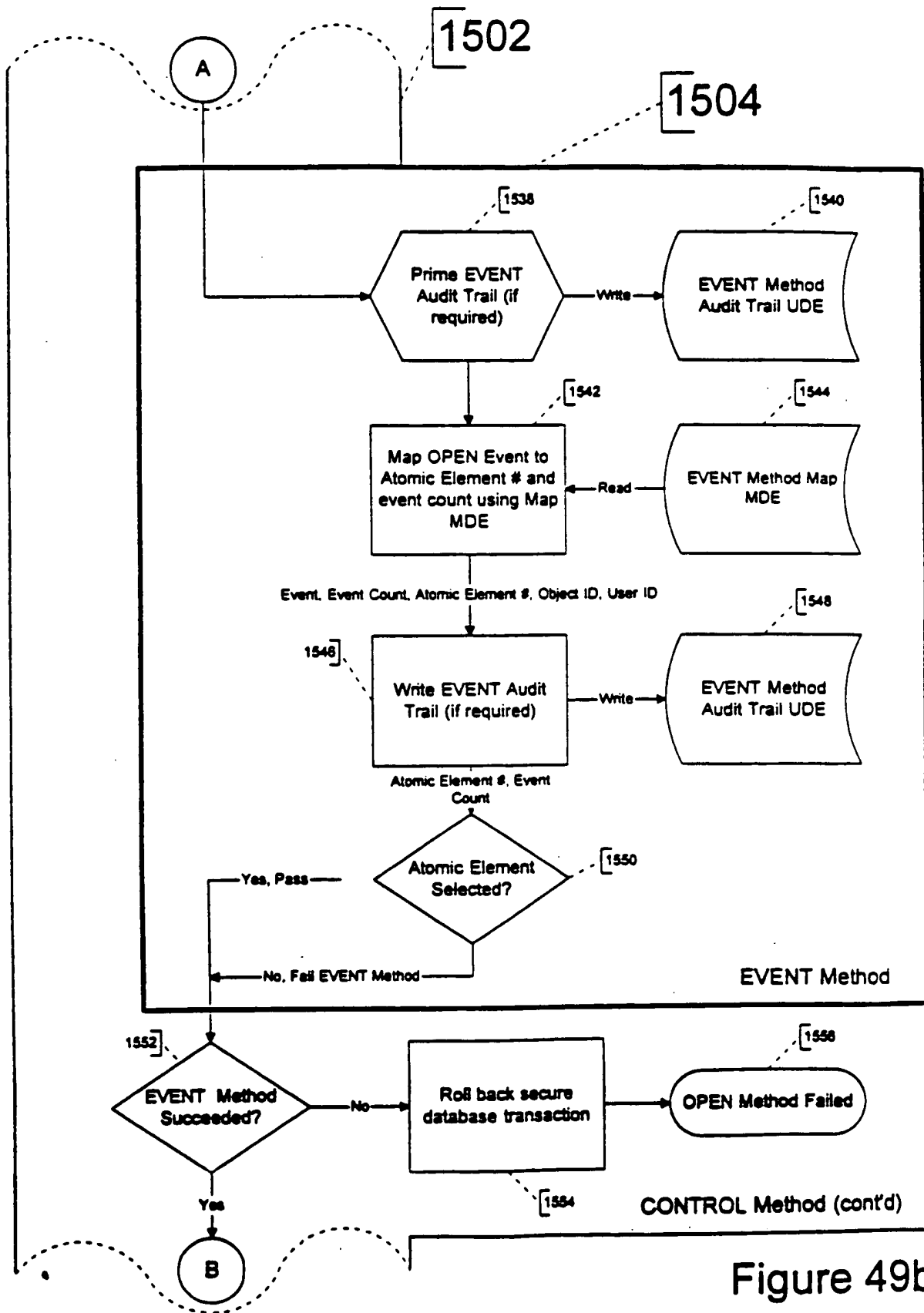
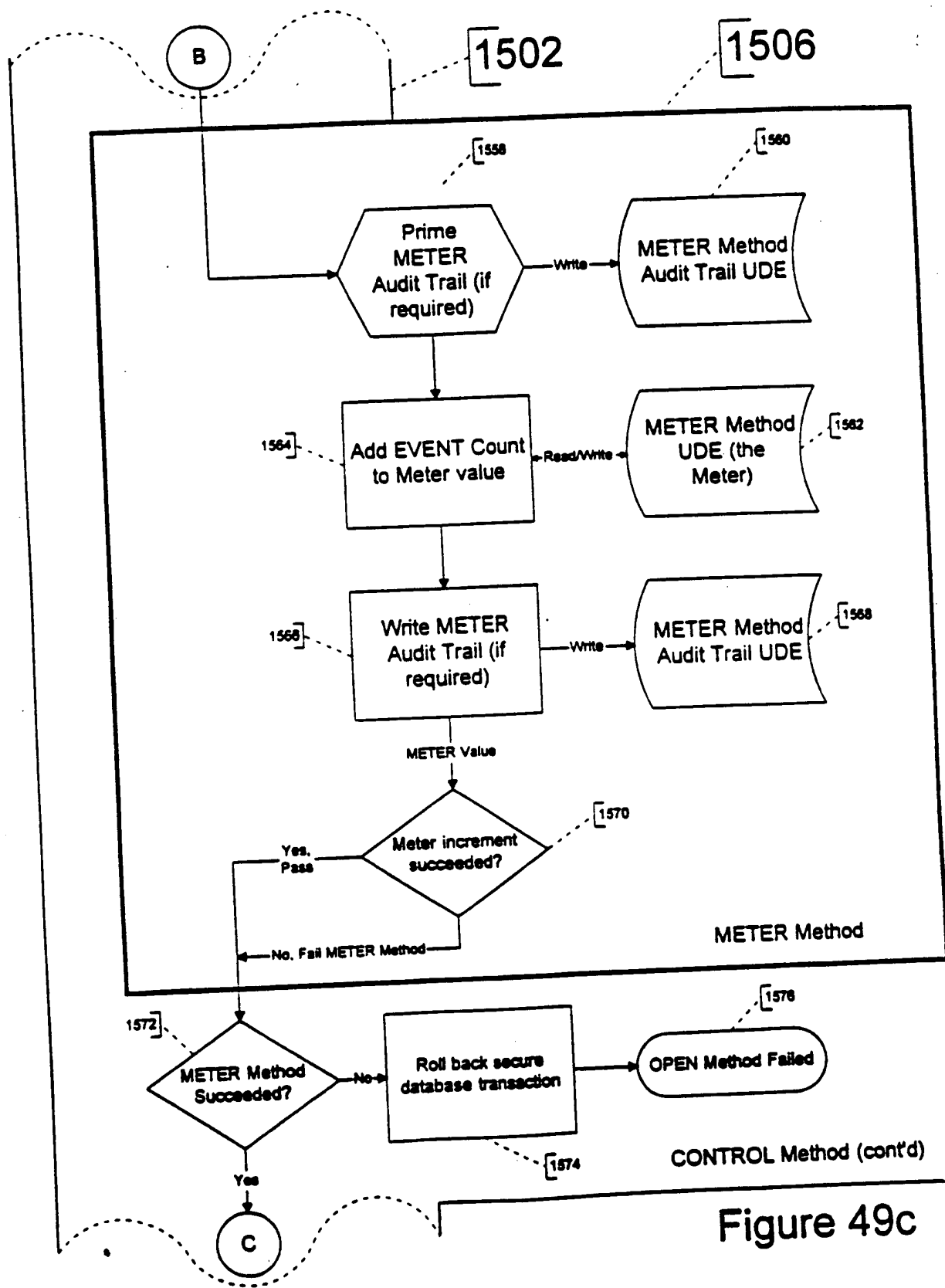


Figure 49b



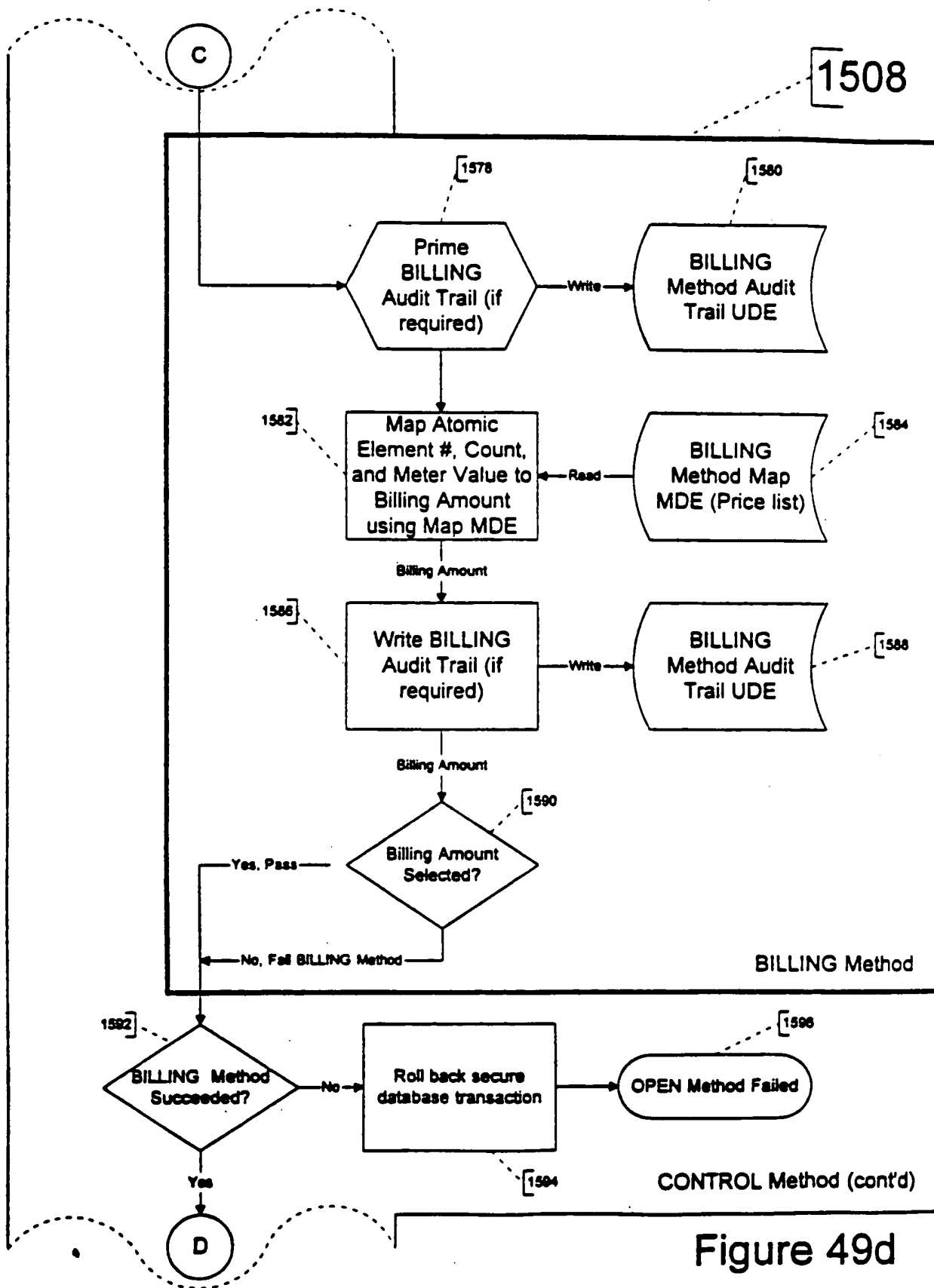


Figure 49d

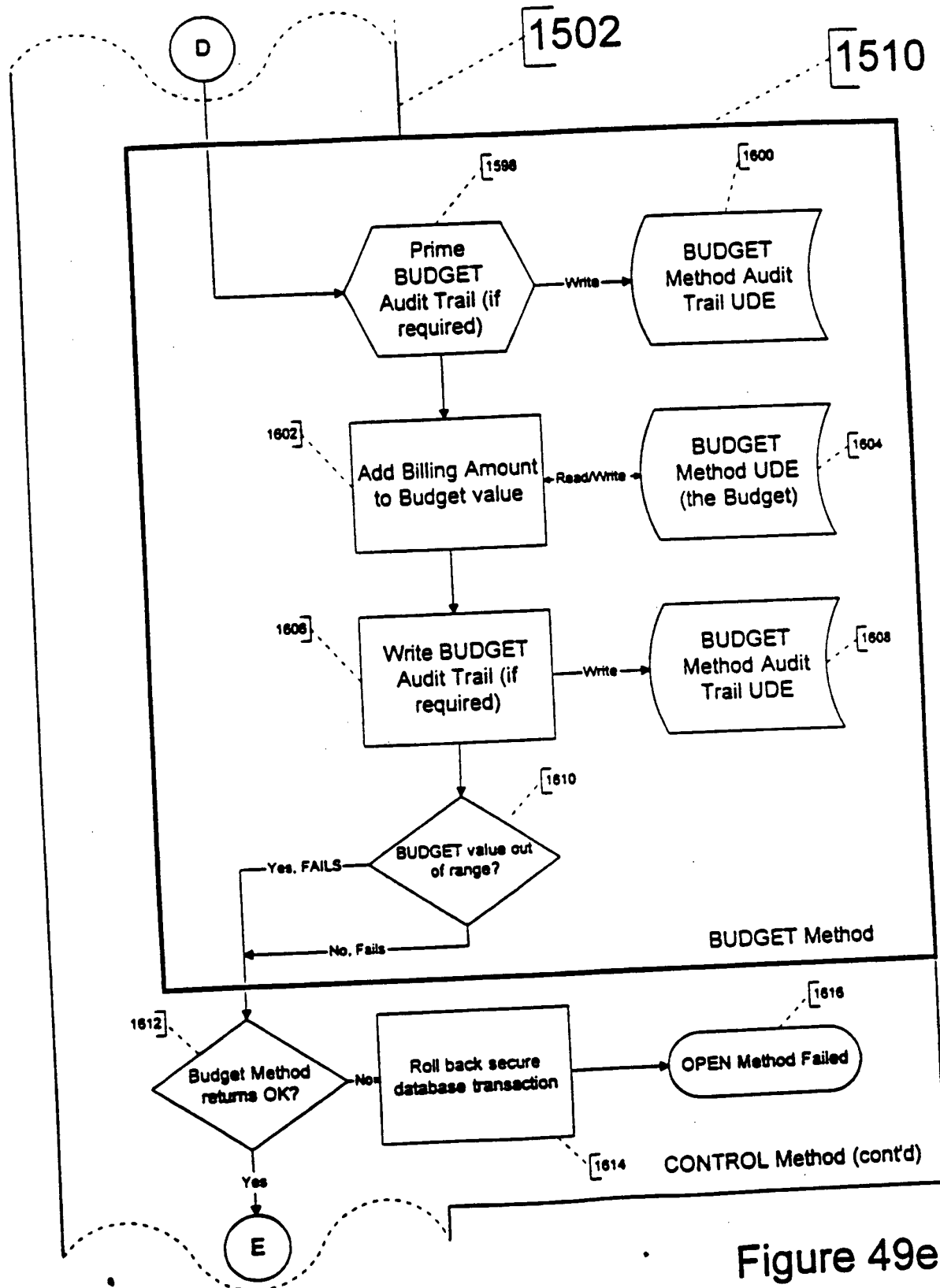


Figure 49e

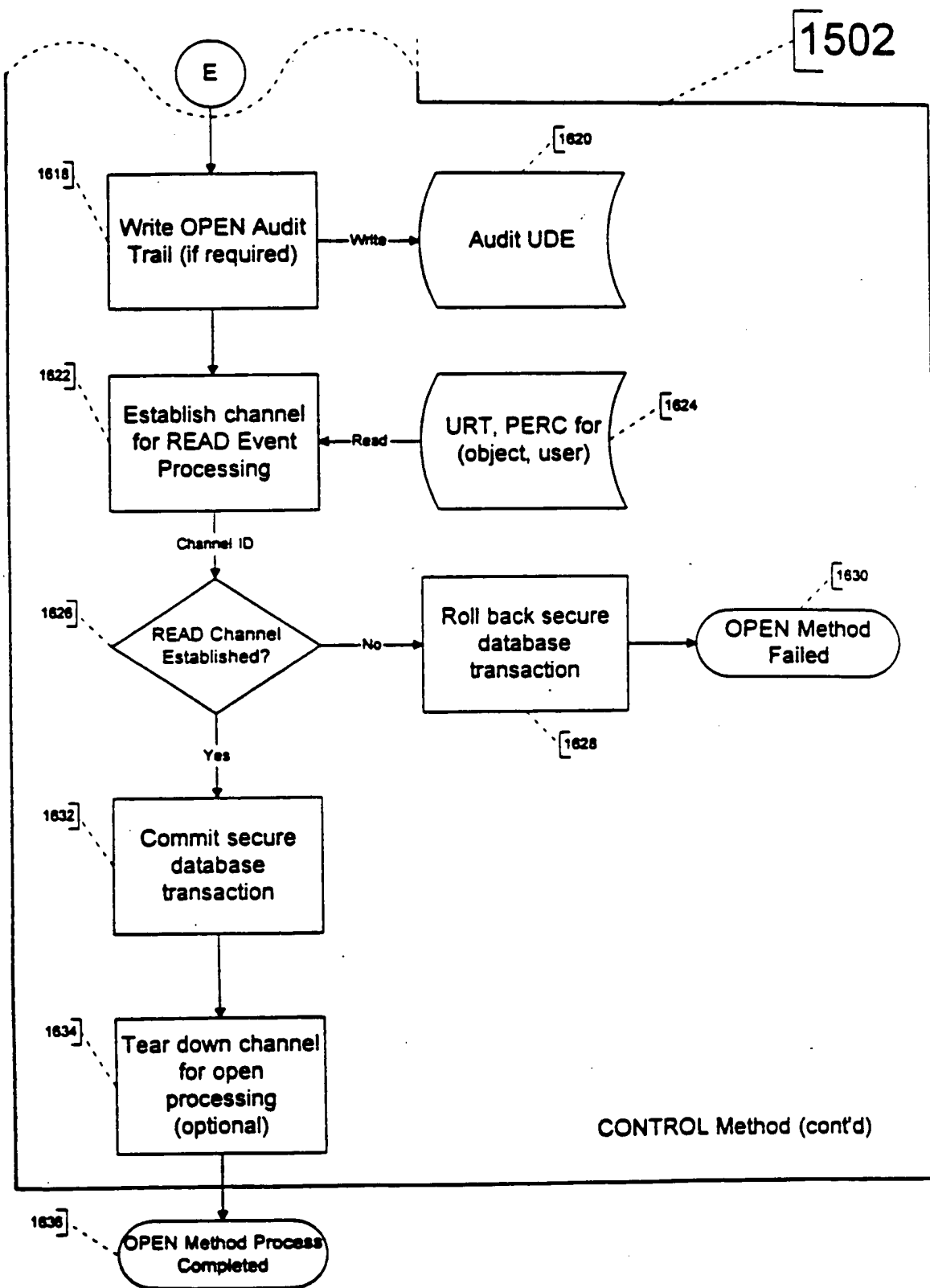


Figure 49f

READ Method Use Process Flow

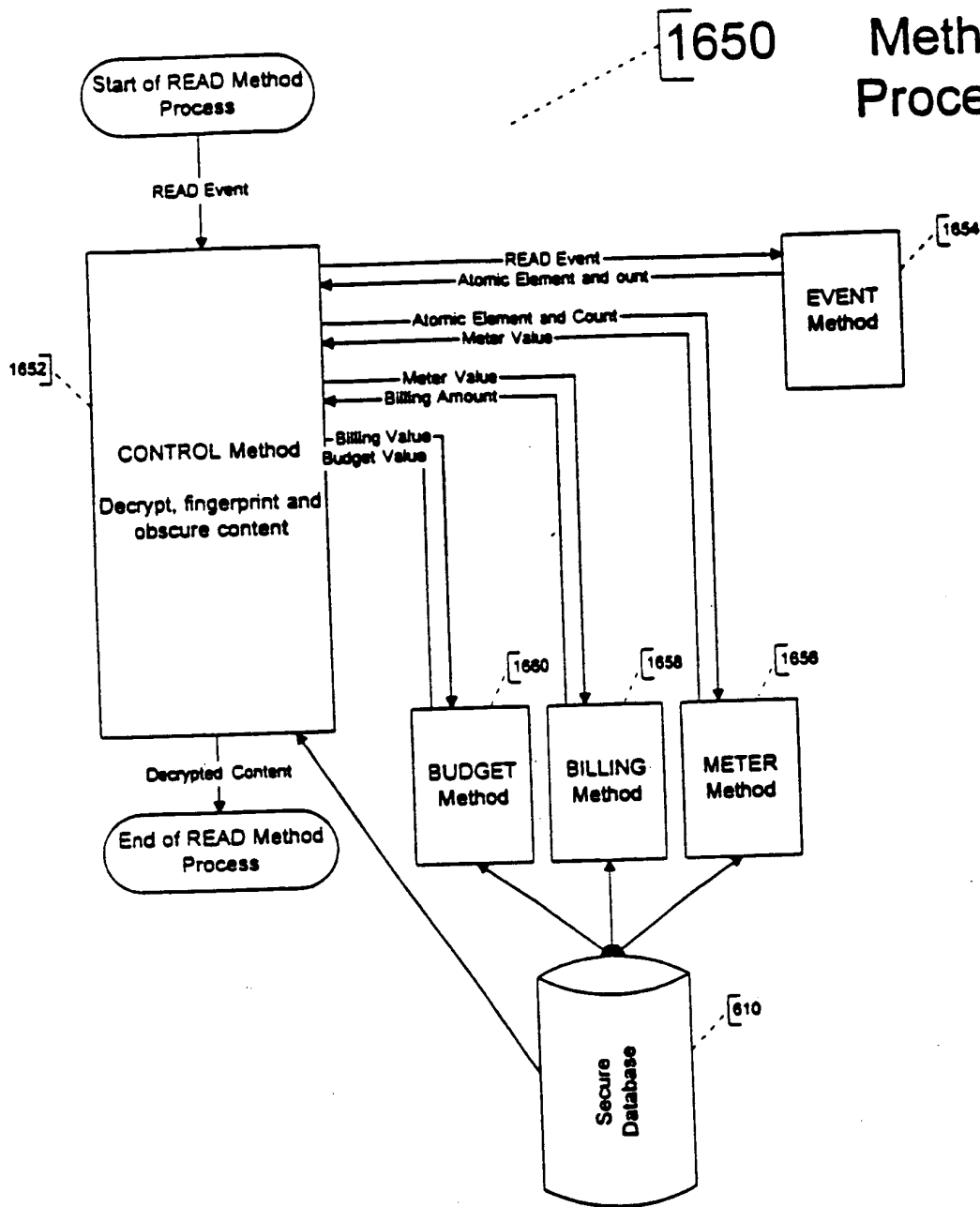


Figure 50

1650

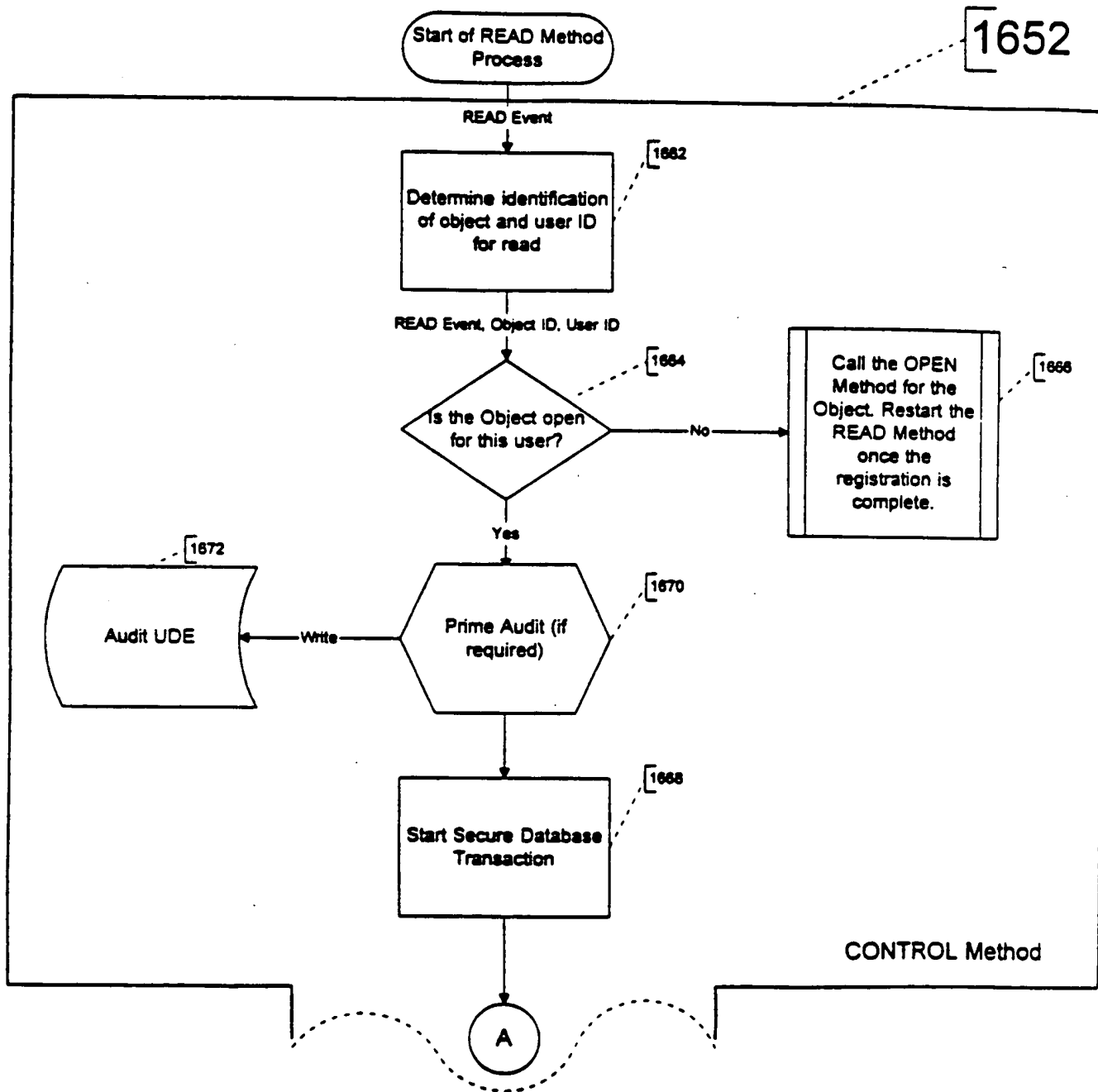


Figure 50a

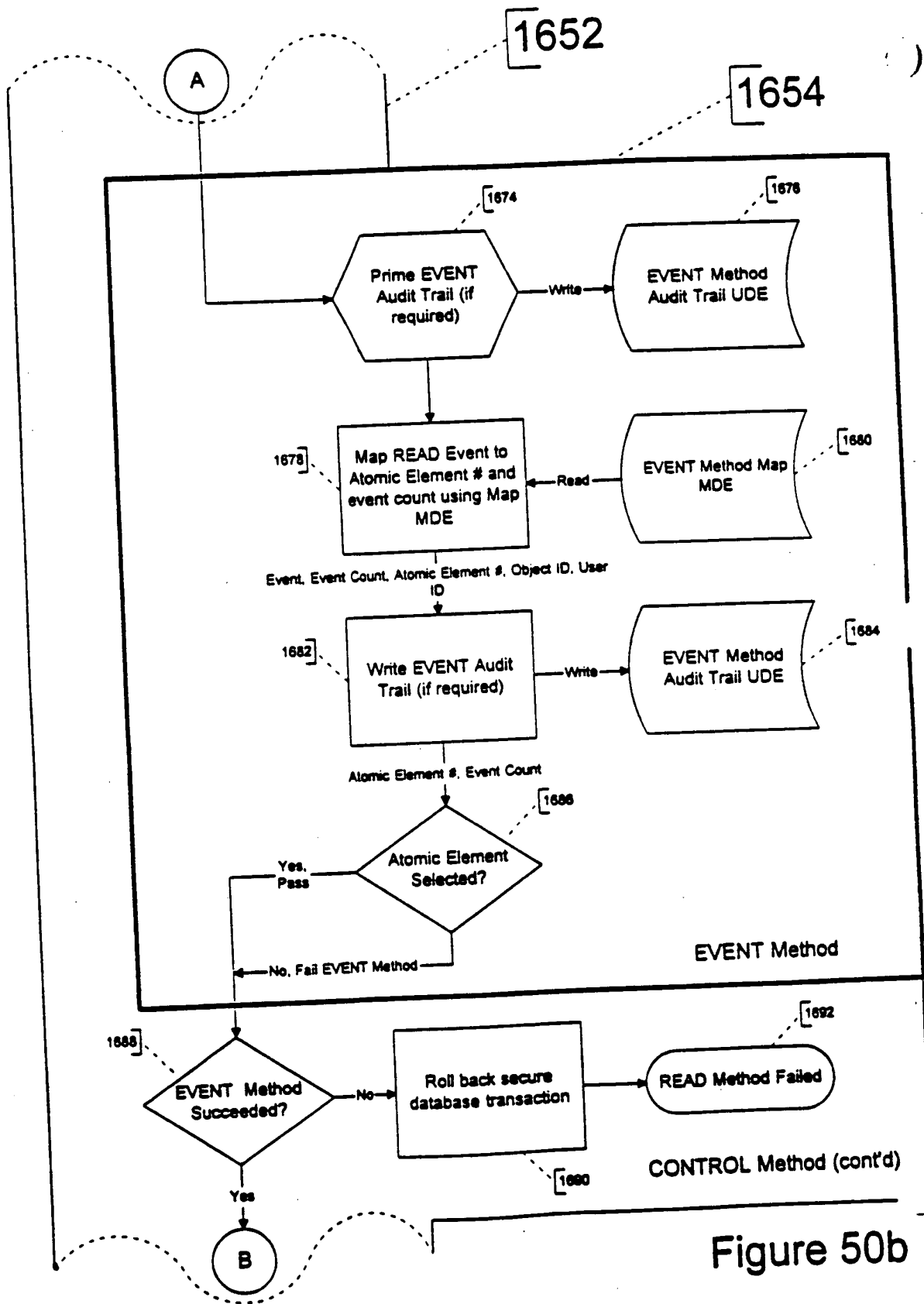


Figure 50b

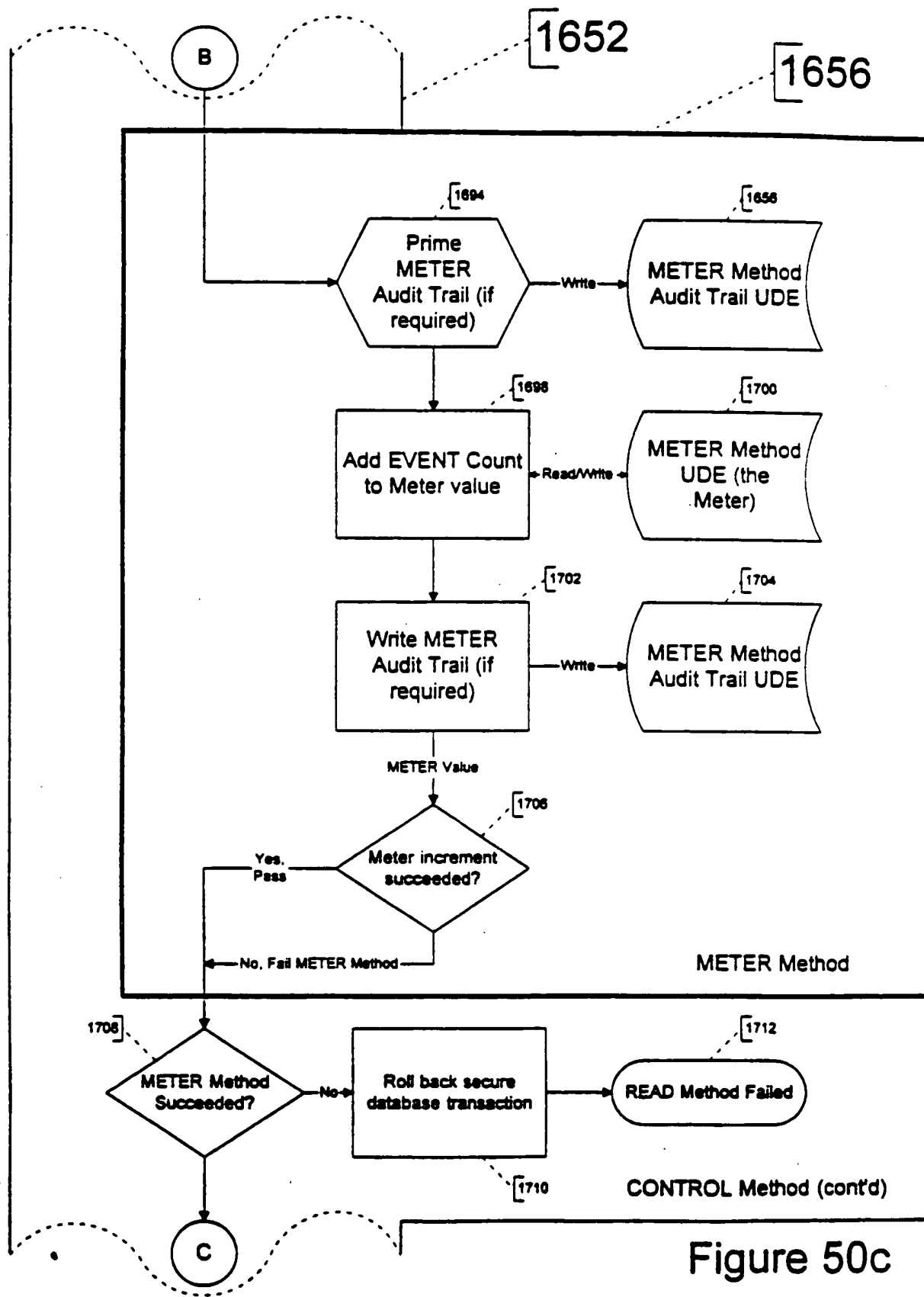


Figure 50c

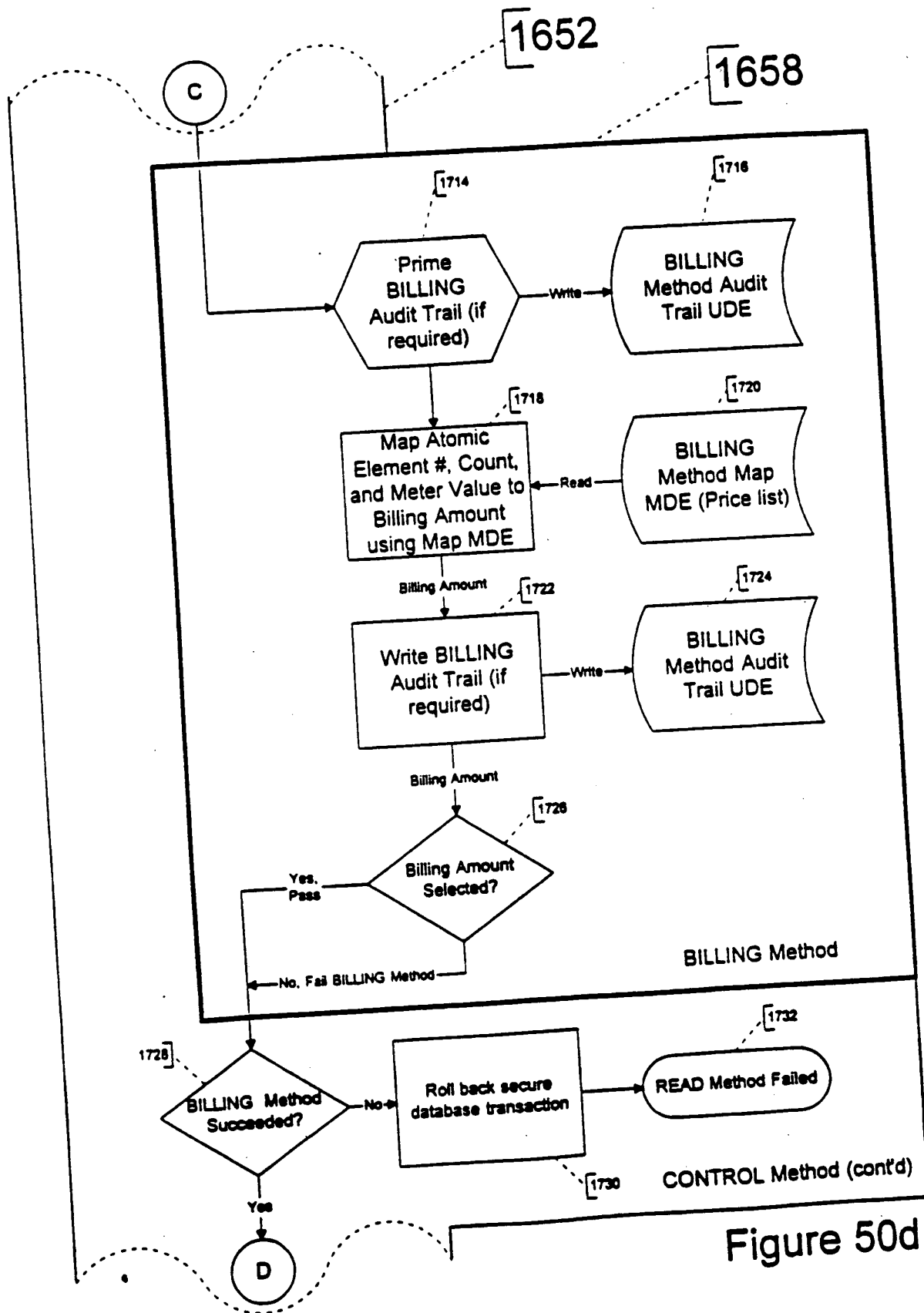


Figure 50d

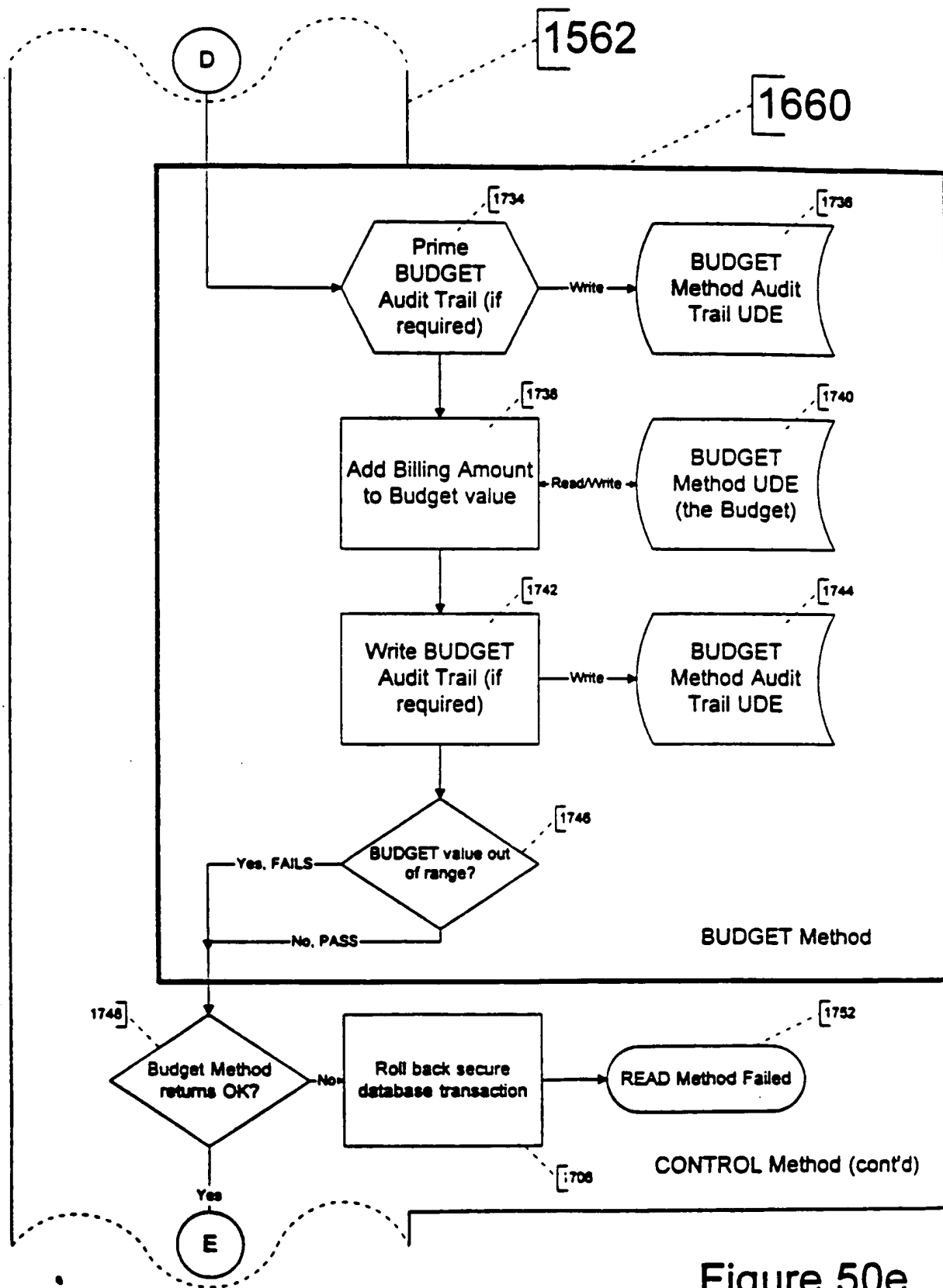
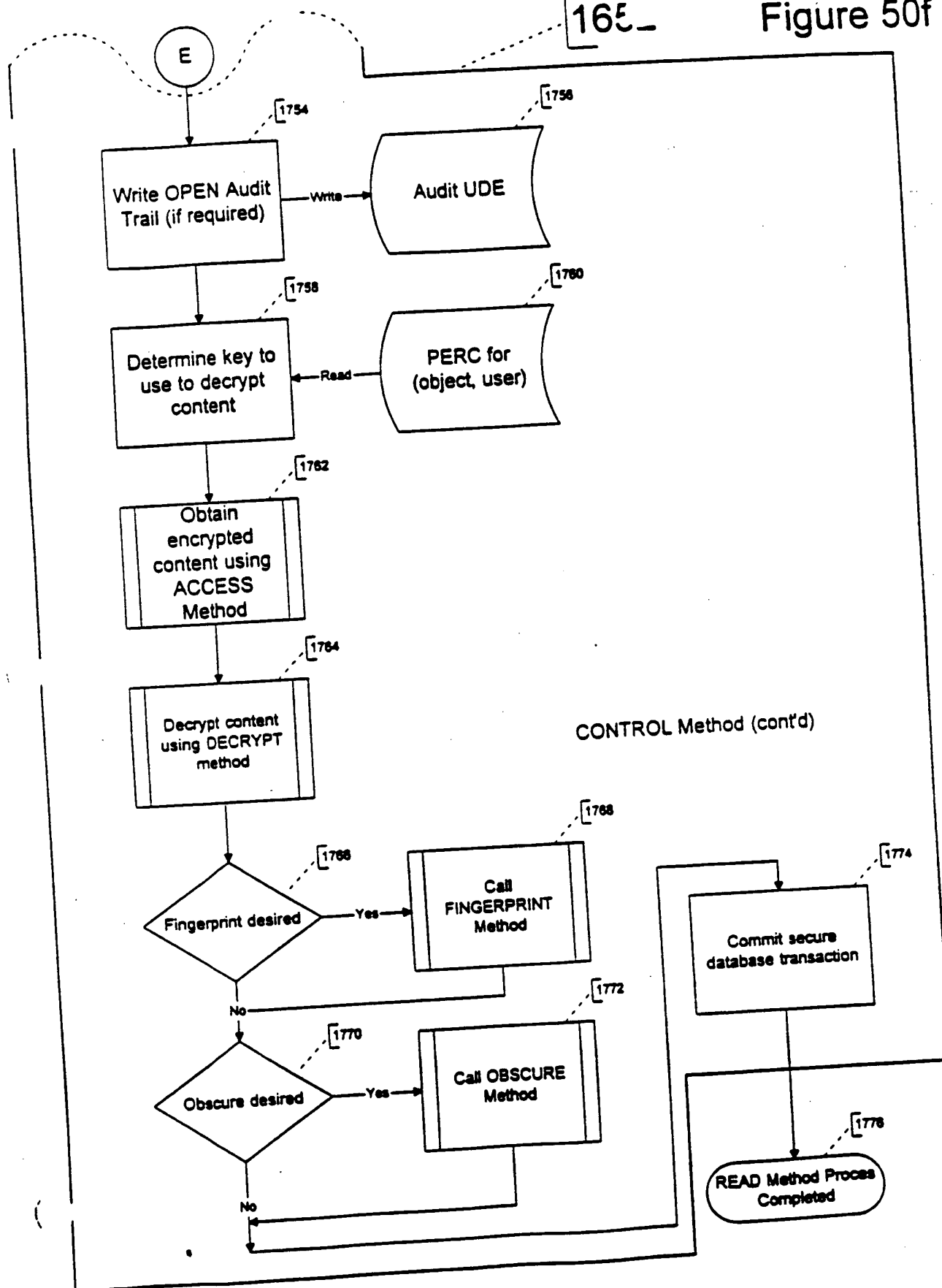


Figure 50e

165

Figure 50f



WRITE Method Use Process Flow

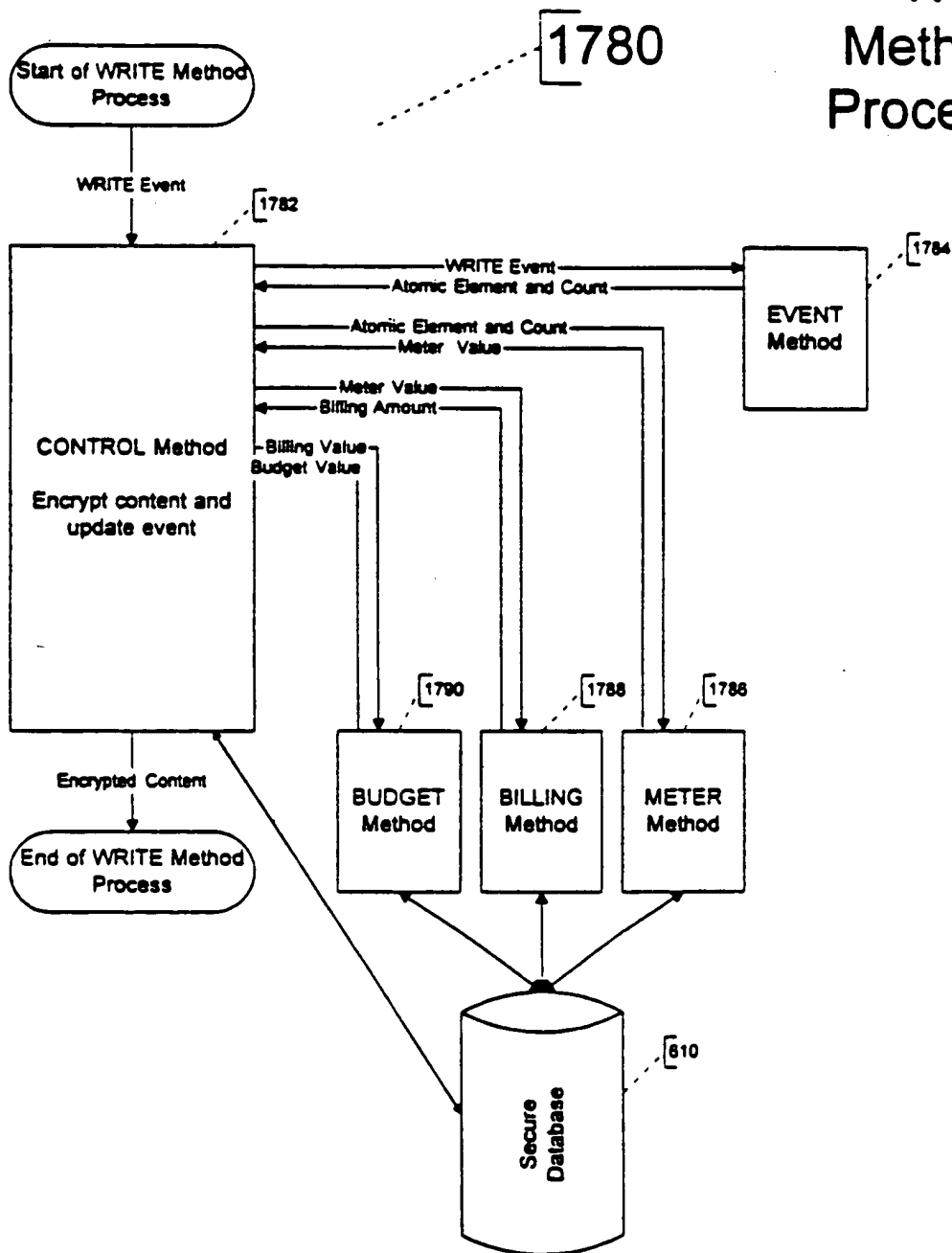


Figure 51

1780

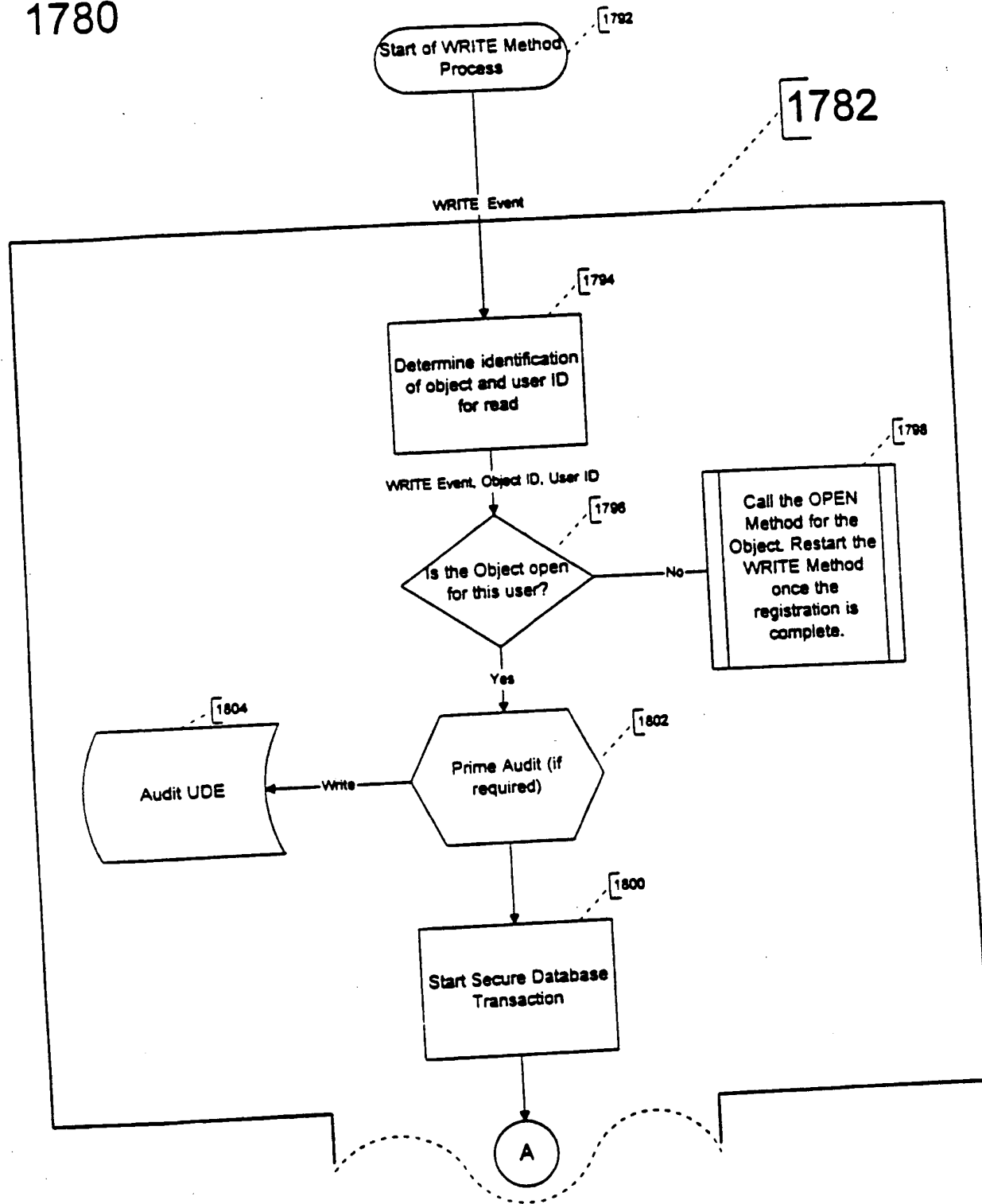


Figure 51a

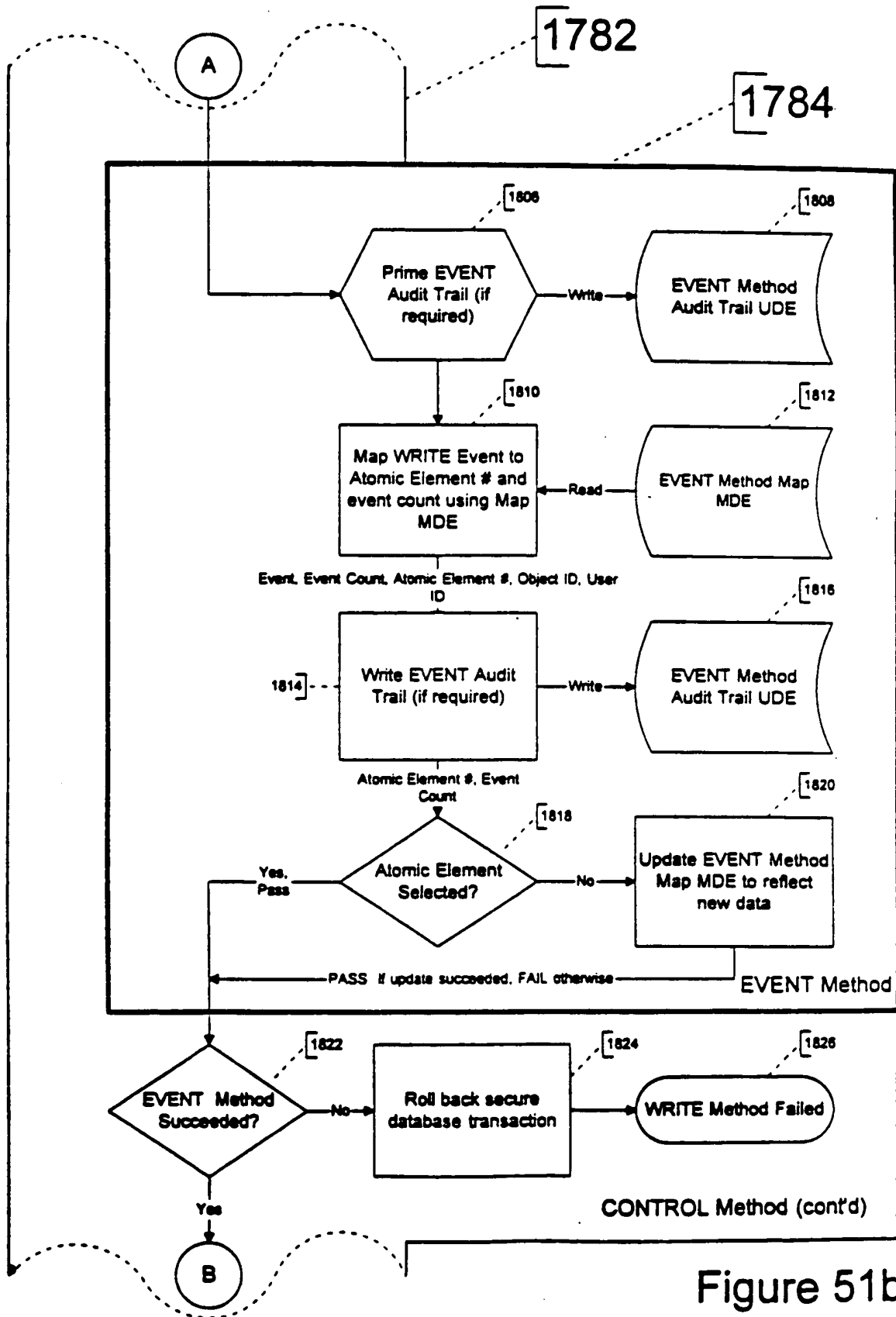


Figure 51b

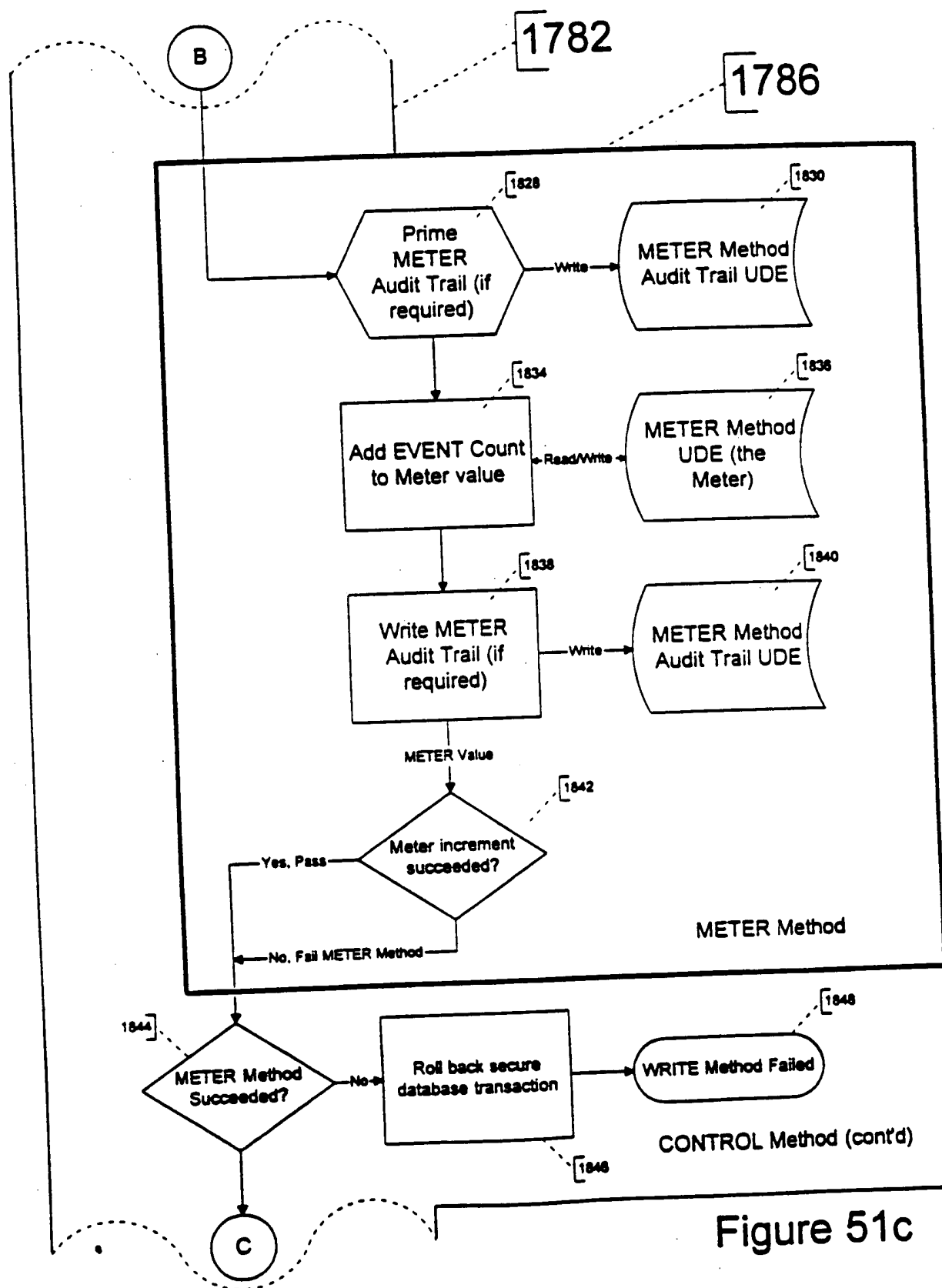


Figure 51c

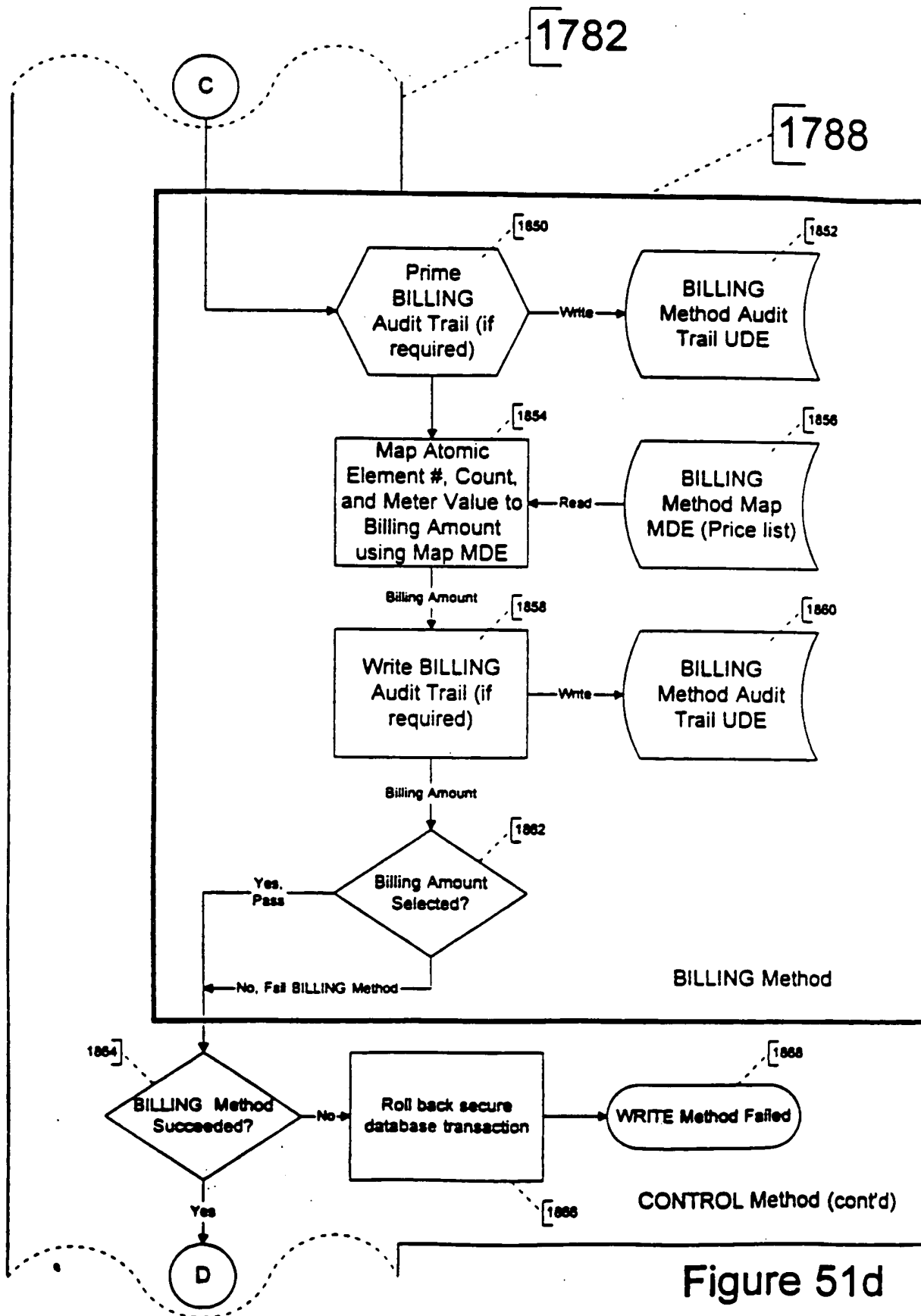


Figure 51d

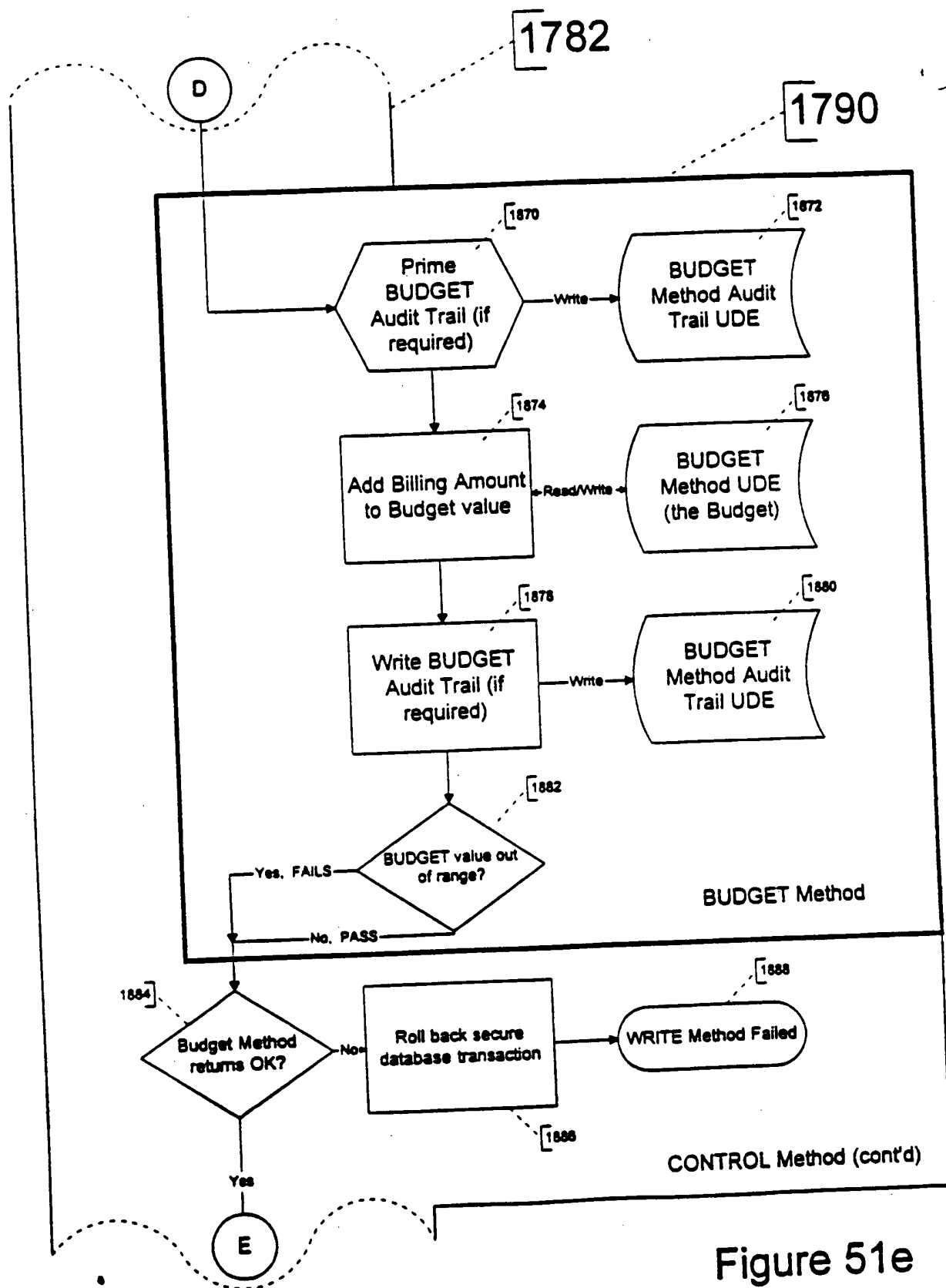


Figure 51e

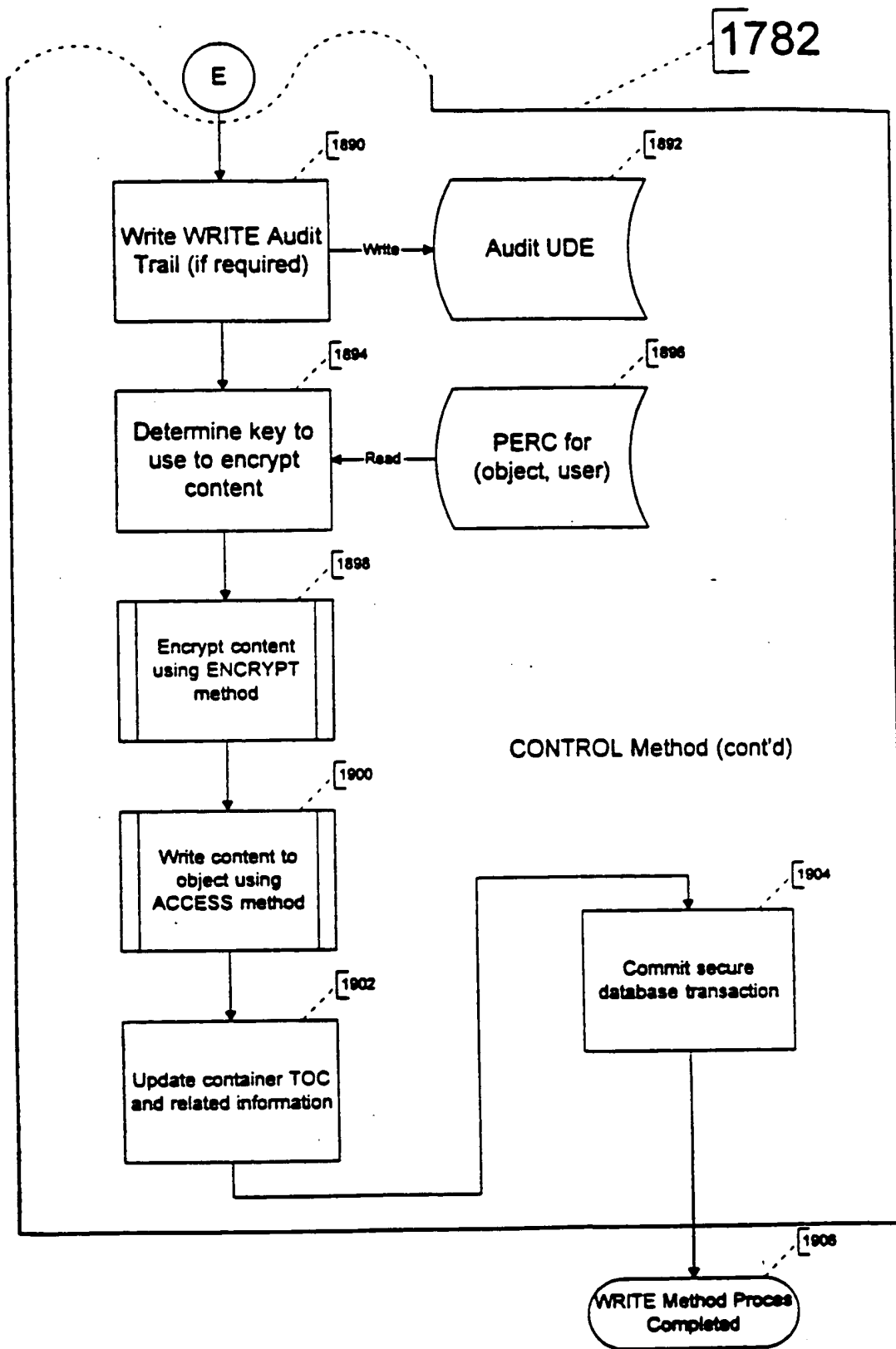
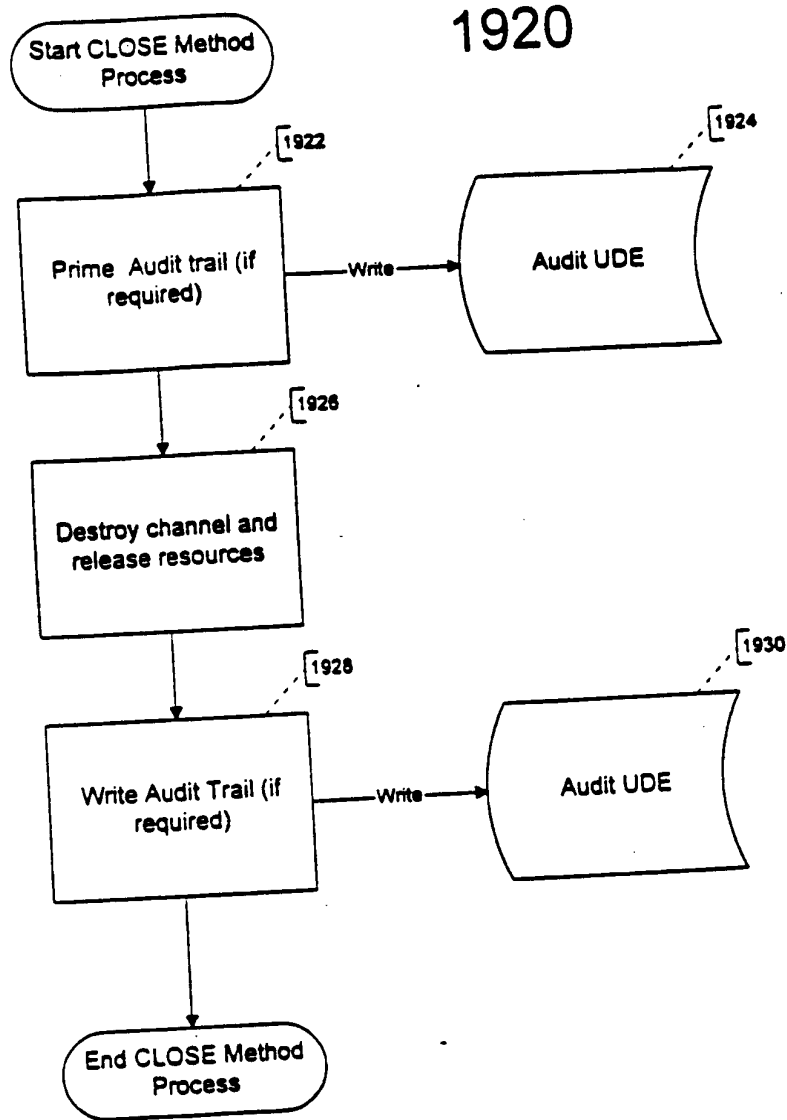


Figure 51f



CLOSE Method Process Flow

Figure 52

EVENT Method Process Flows

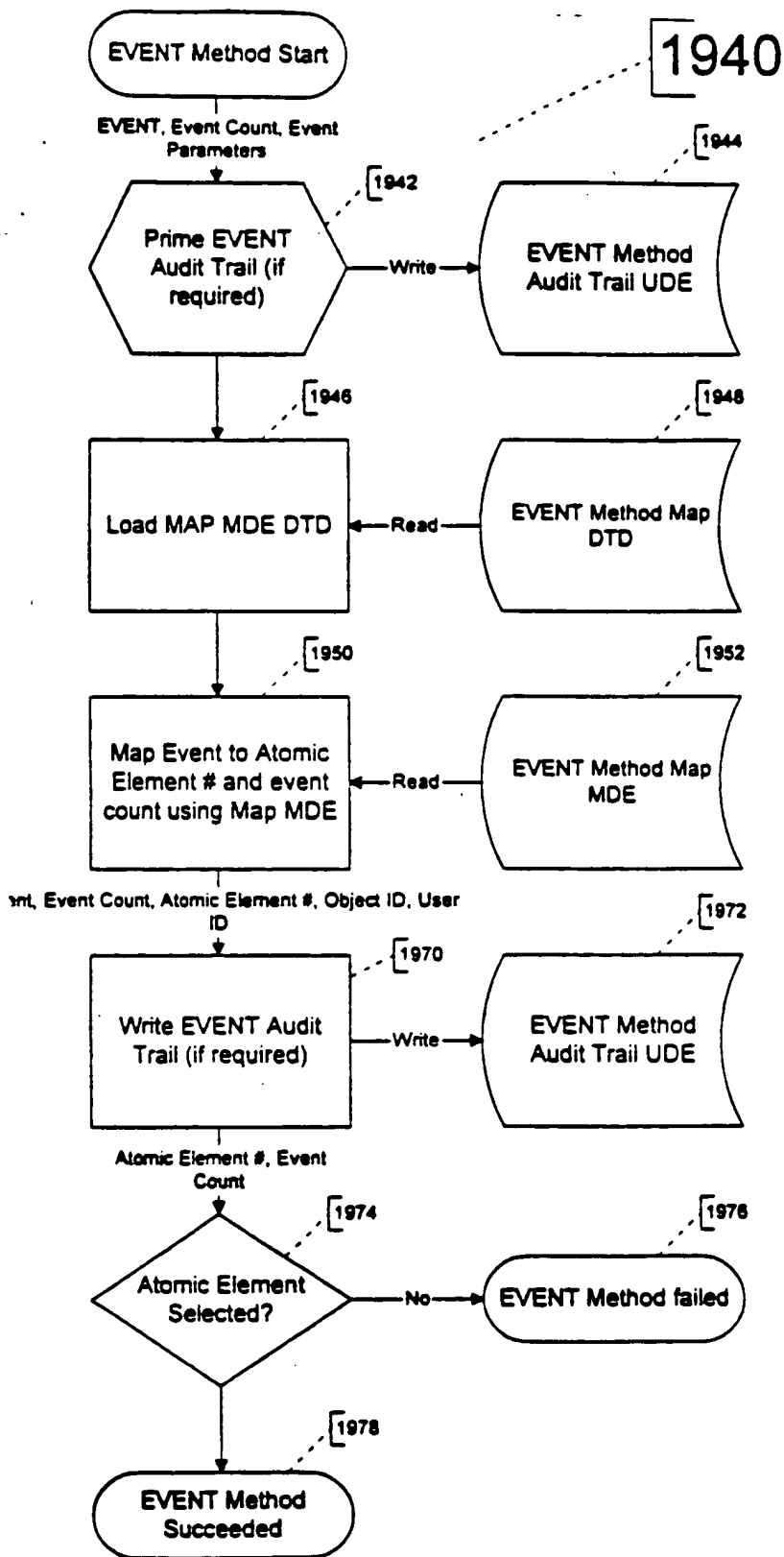


Figure 53a

Sample EVENT Method Mapping Process

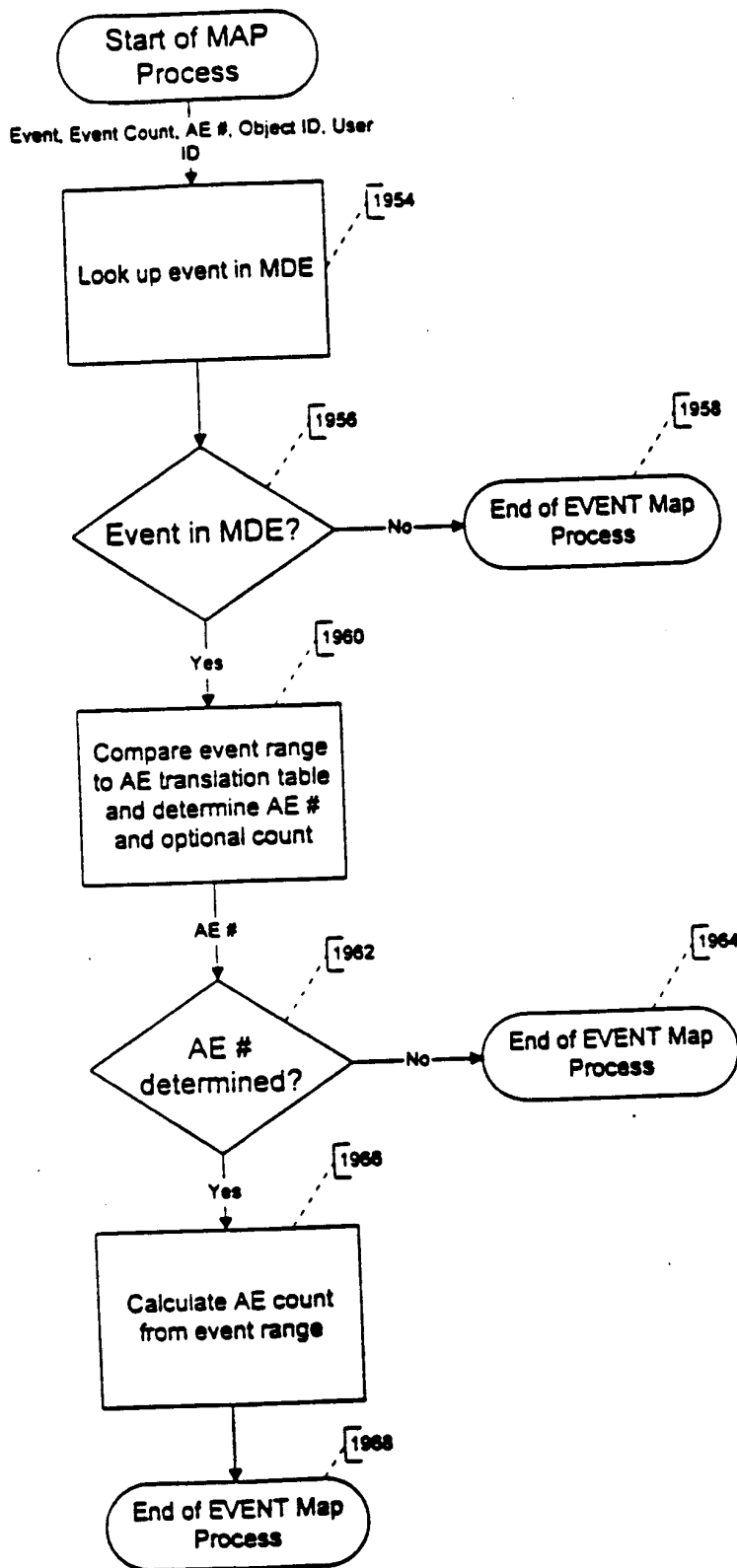
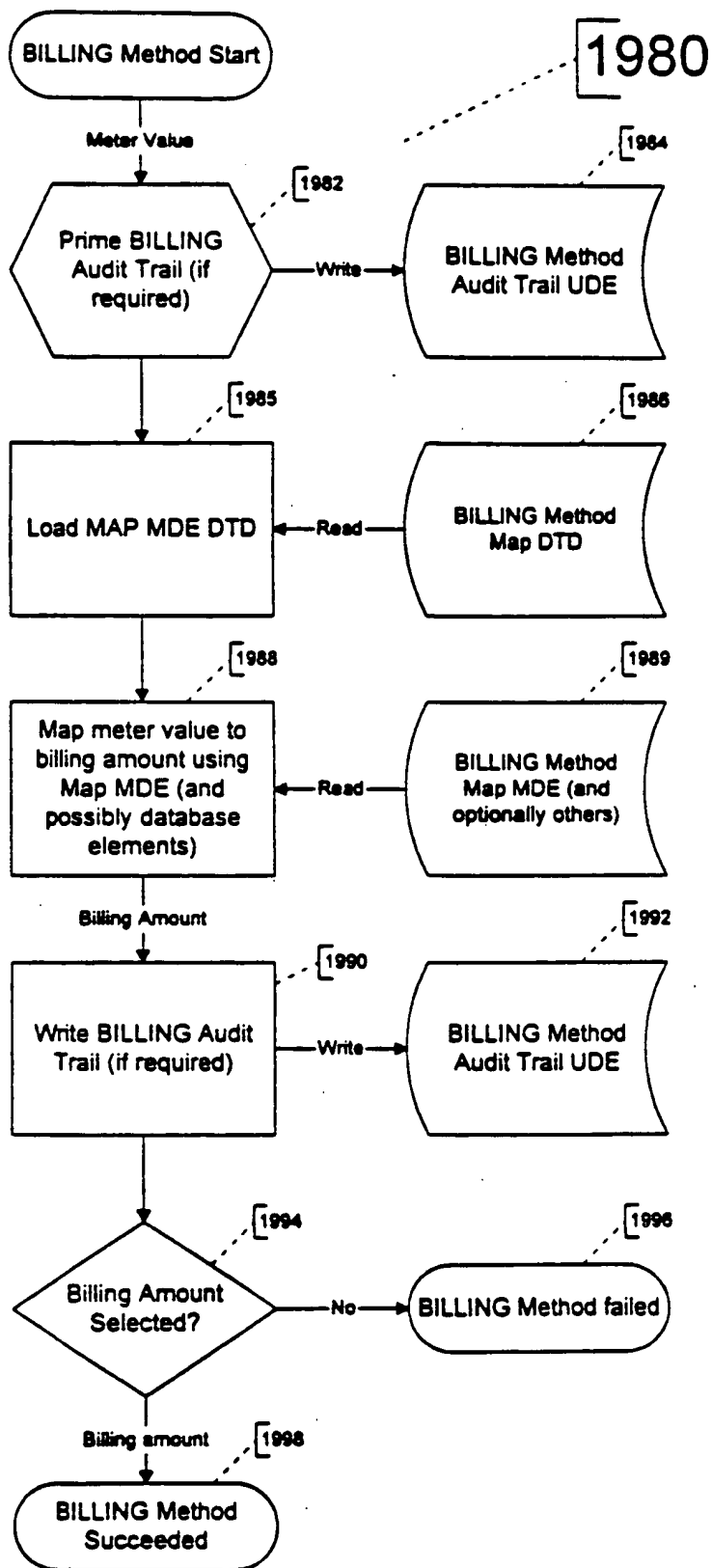


Figure 53b



BILLING Method Process Flows

Figure 53c

ACCESS Method Process Flow

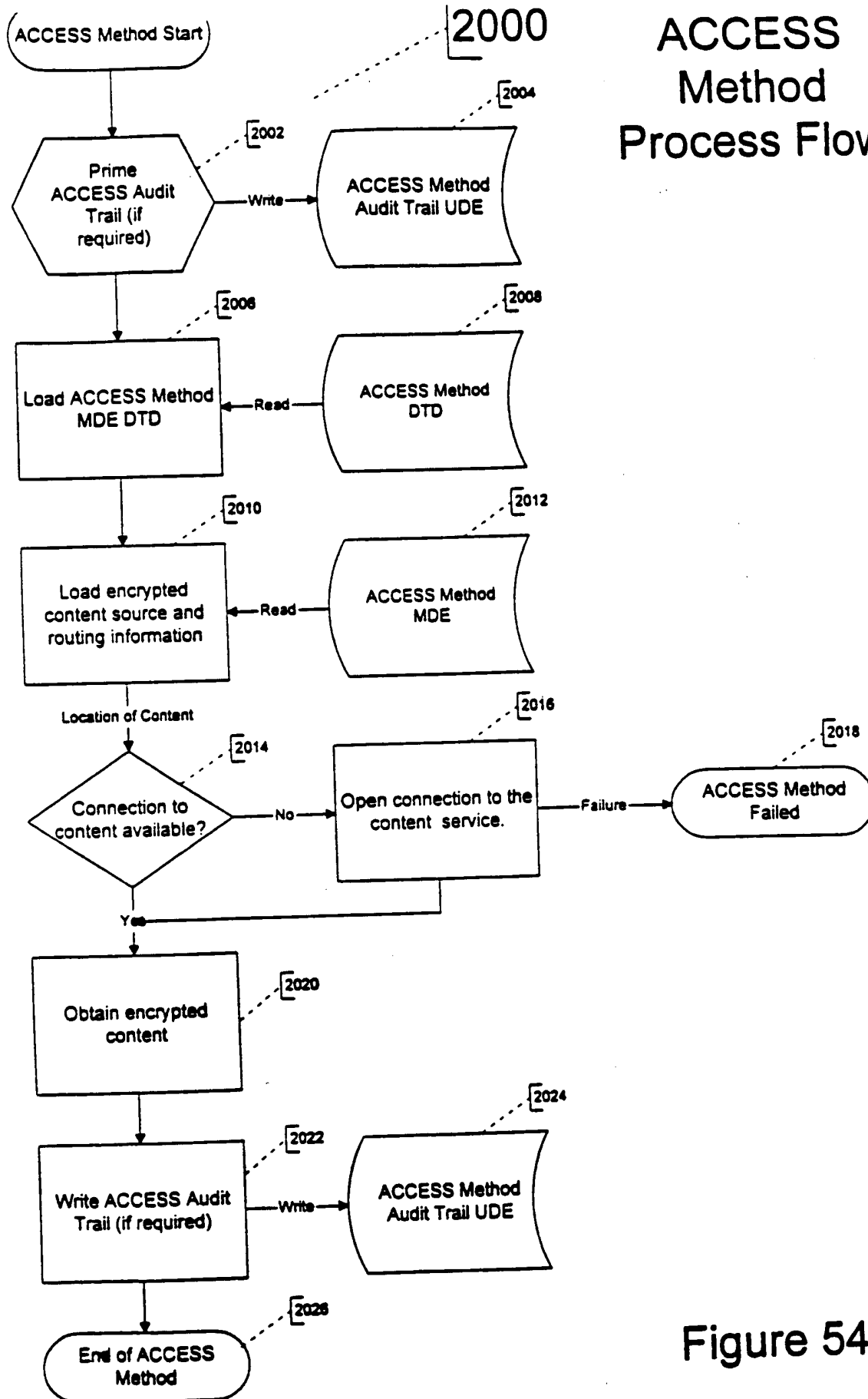


Figure 54

DECRYPT Method Process Flow

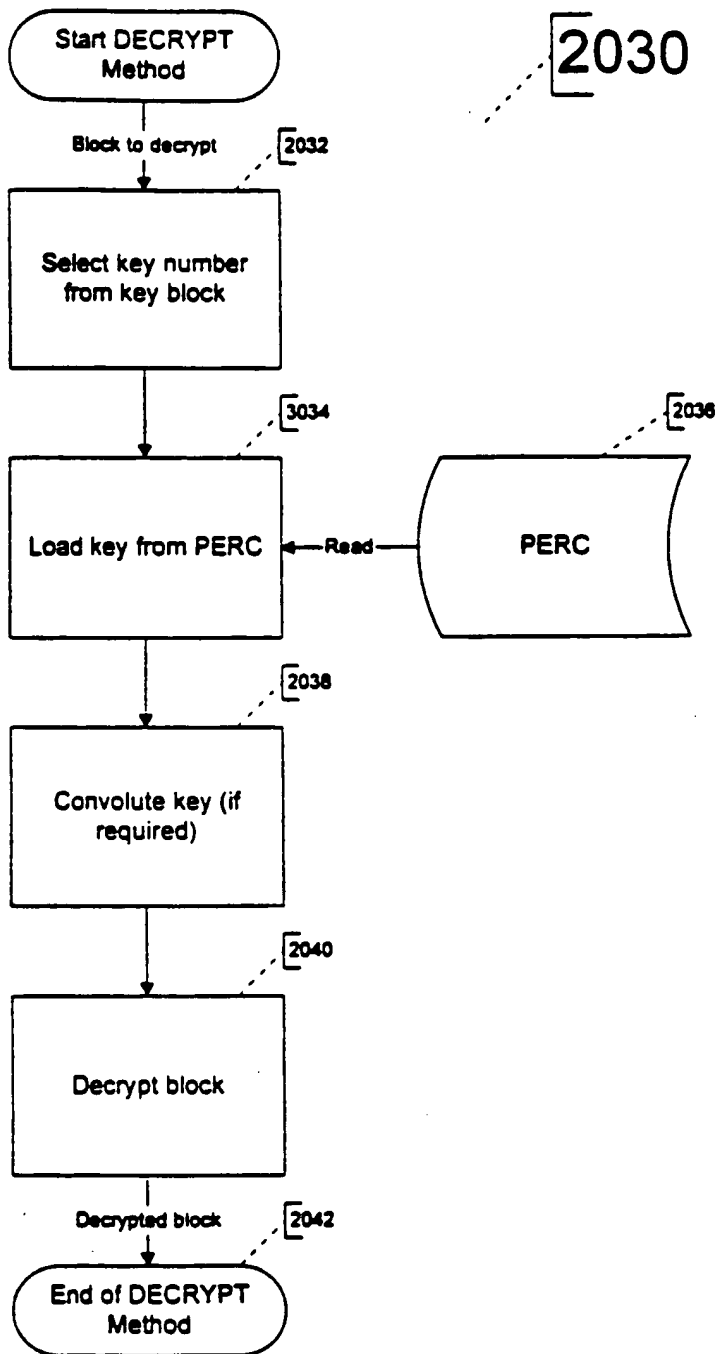


Figure 55a

ENCRYPT Method Process Flow

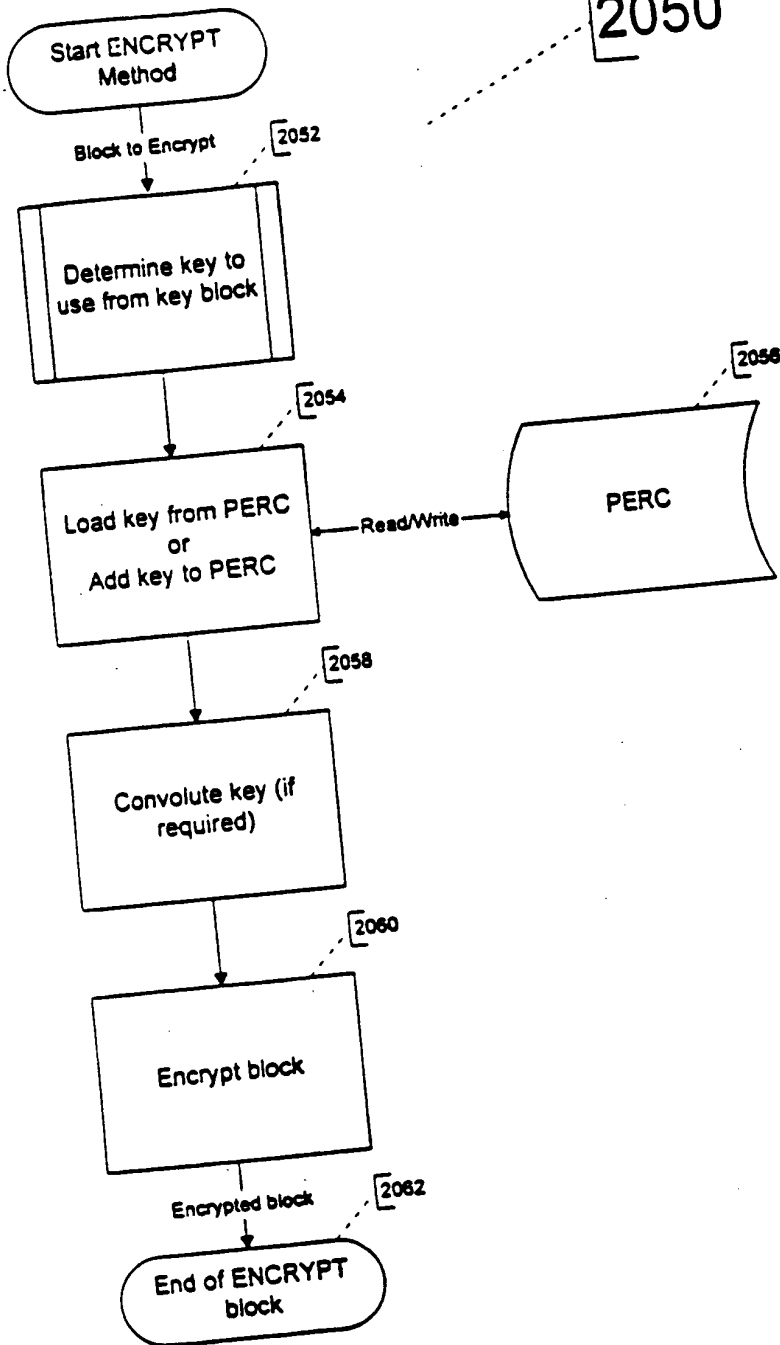


Figure 55b

2070

CONTENT Method Process Flow

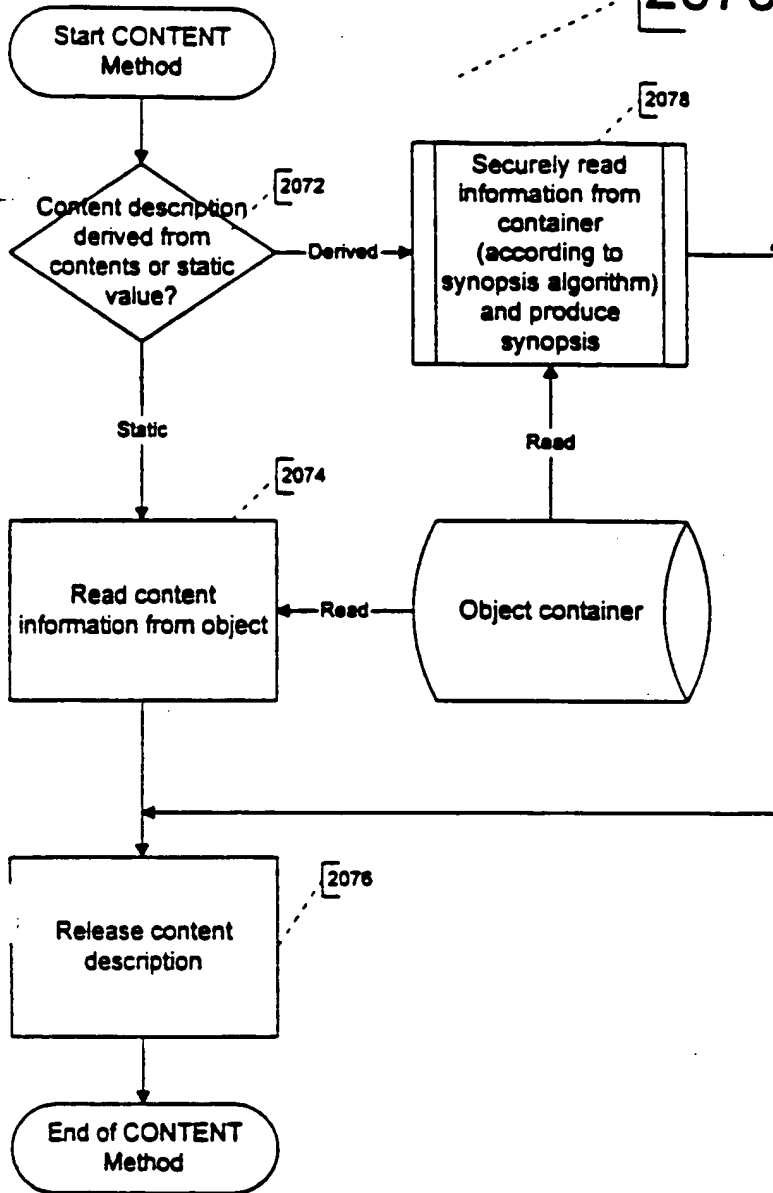


Figure 56

EXTRACT Method Process Flow

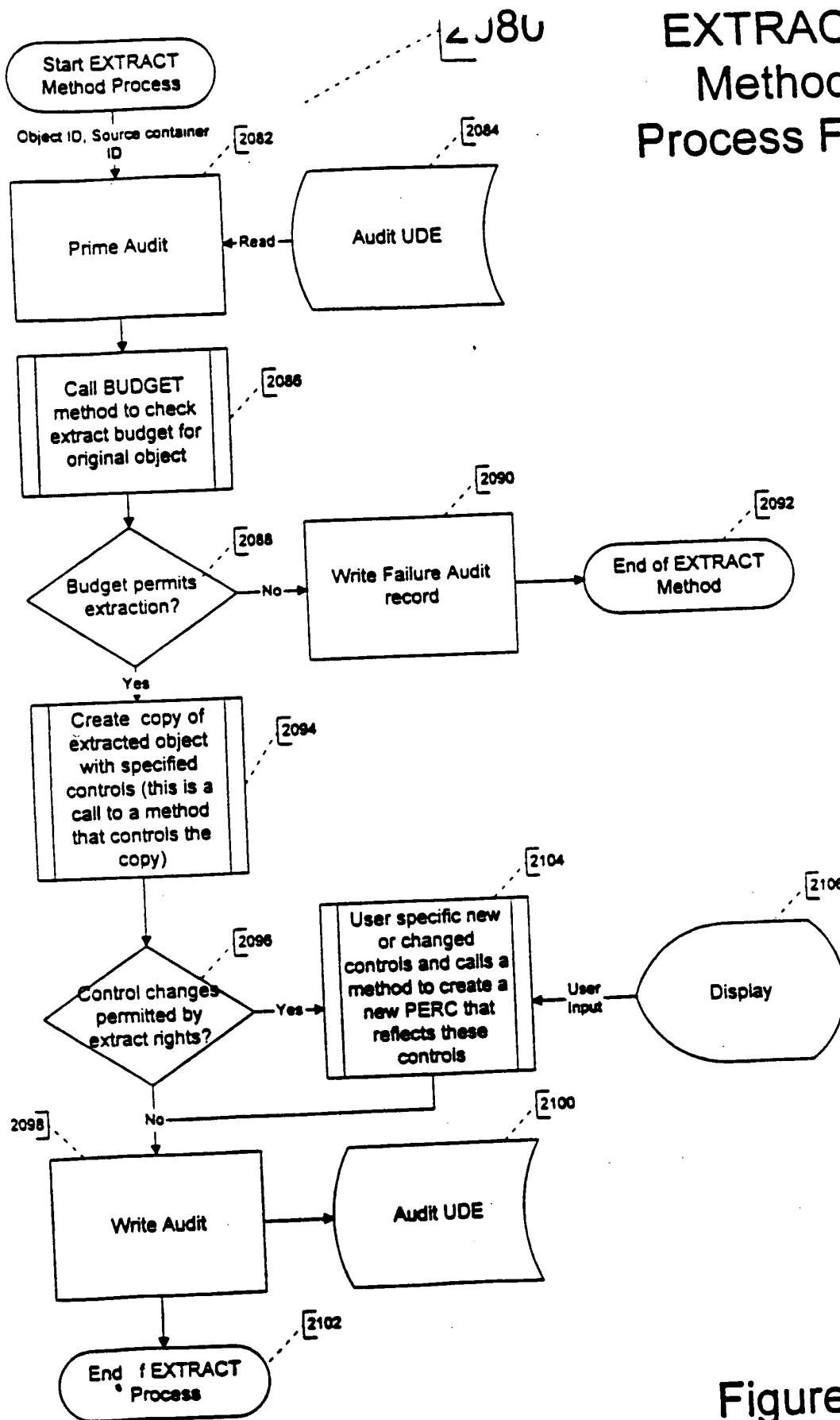


Figure 57a

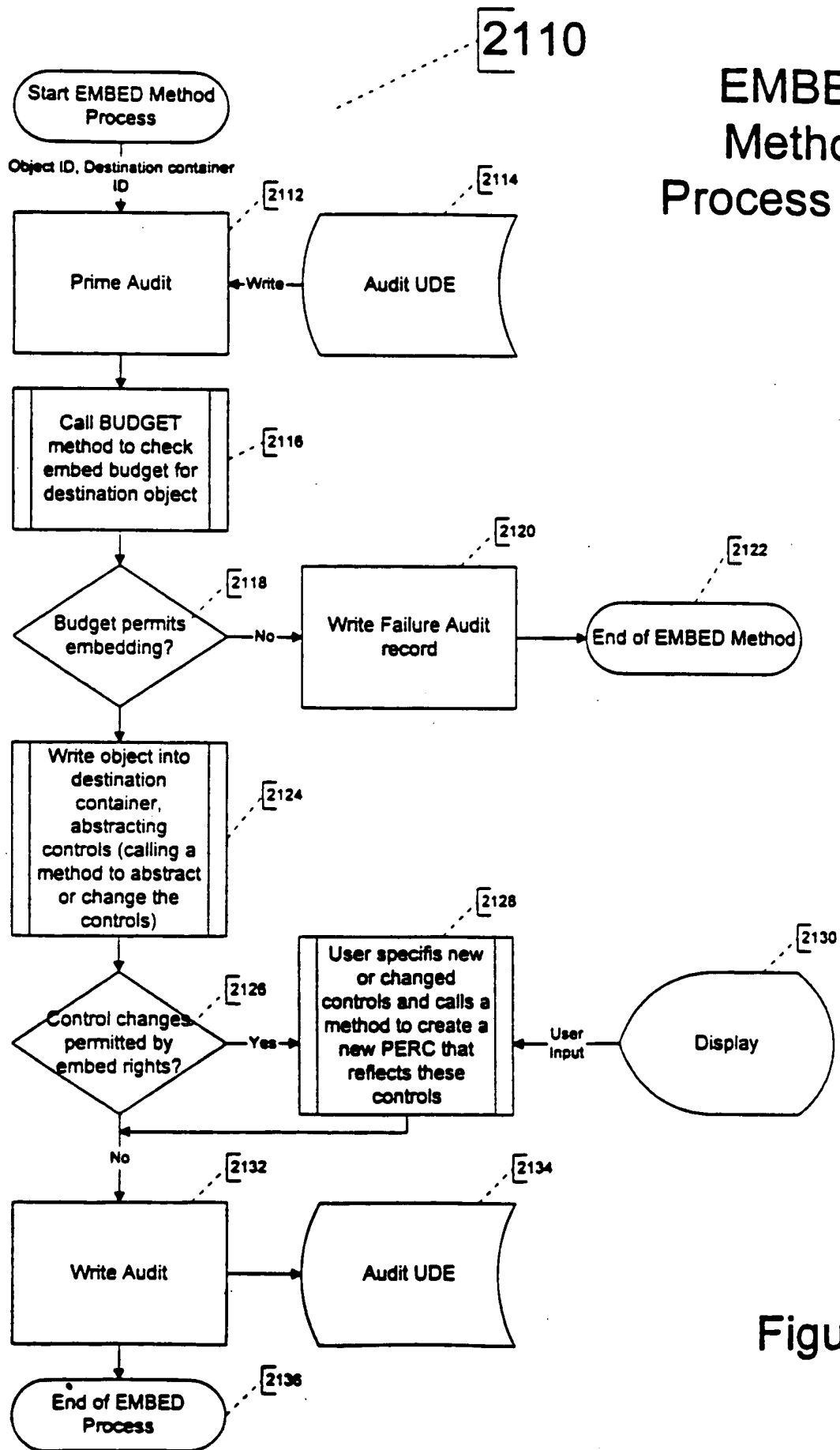
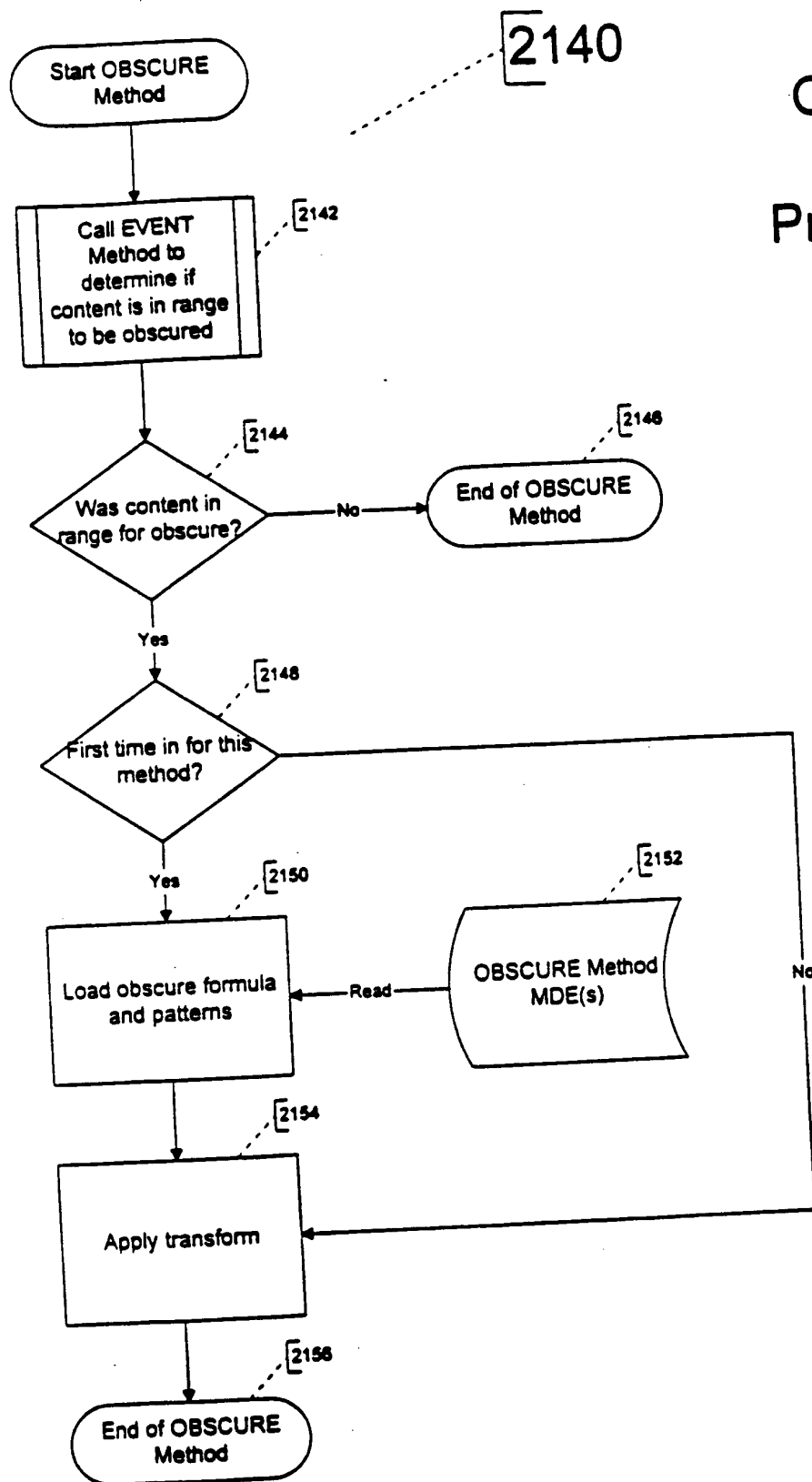


Figure 57b



OBSCURE Method Process Flow

Figure 58a

FINGERPRINT Method Process Flow

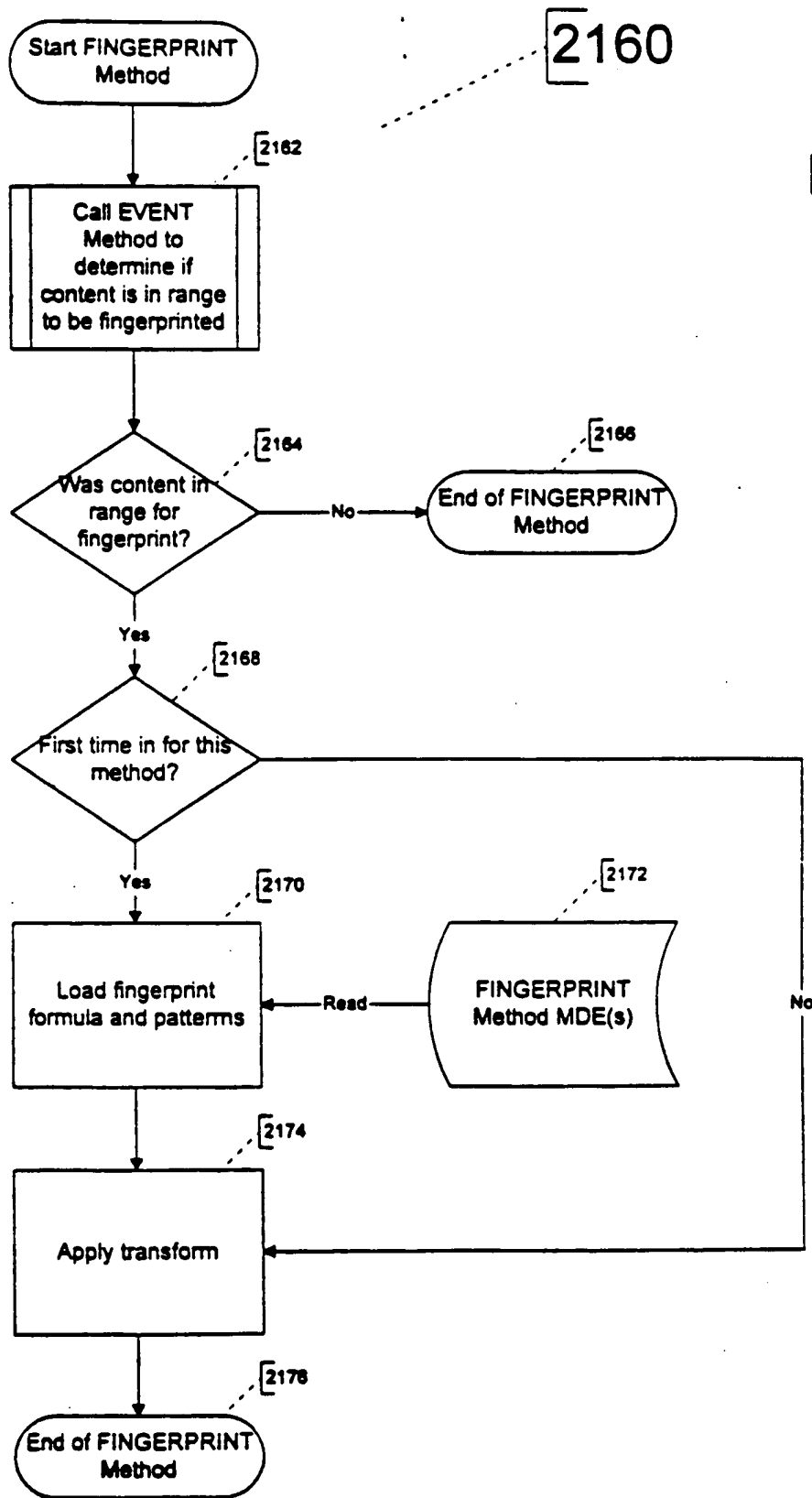


Figure 58b

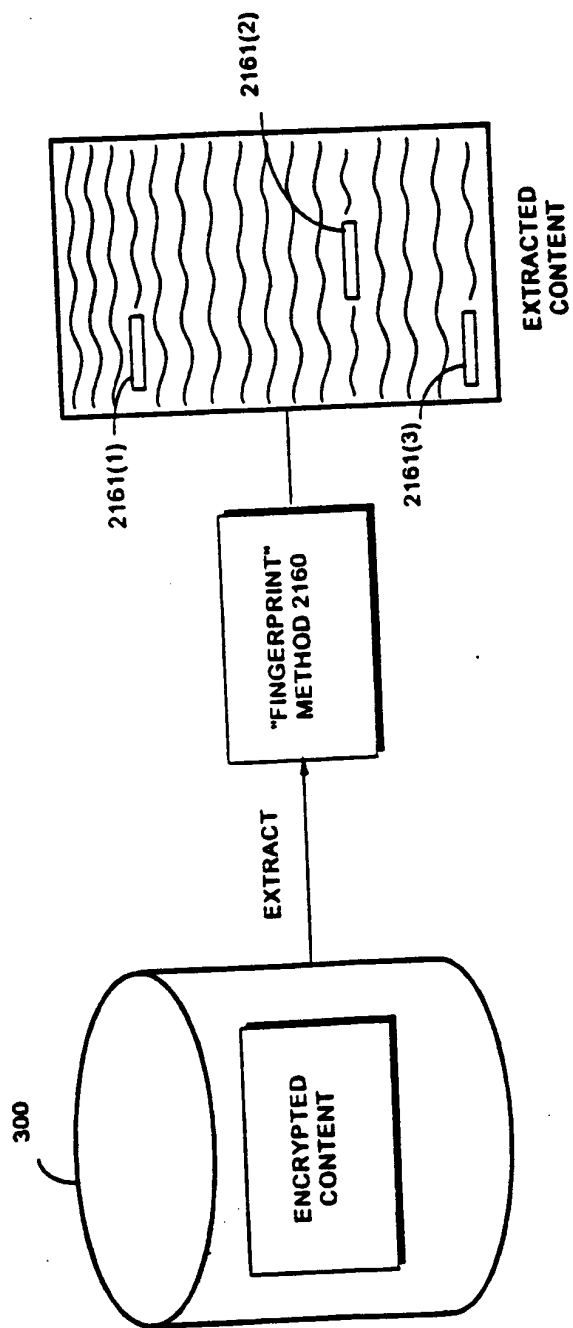


FIG. 58C

DESTROY Method Process Flow

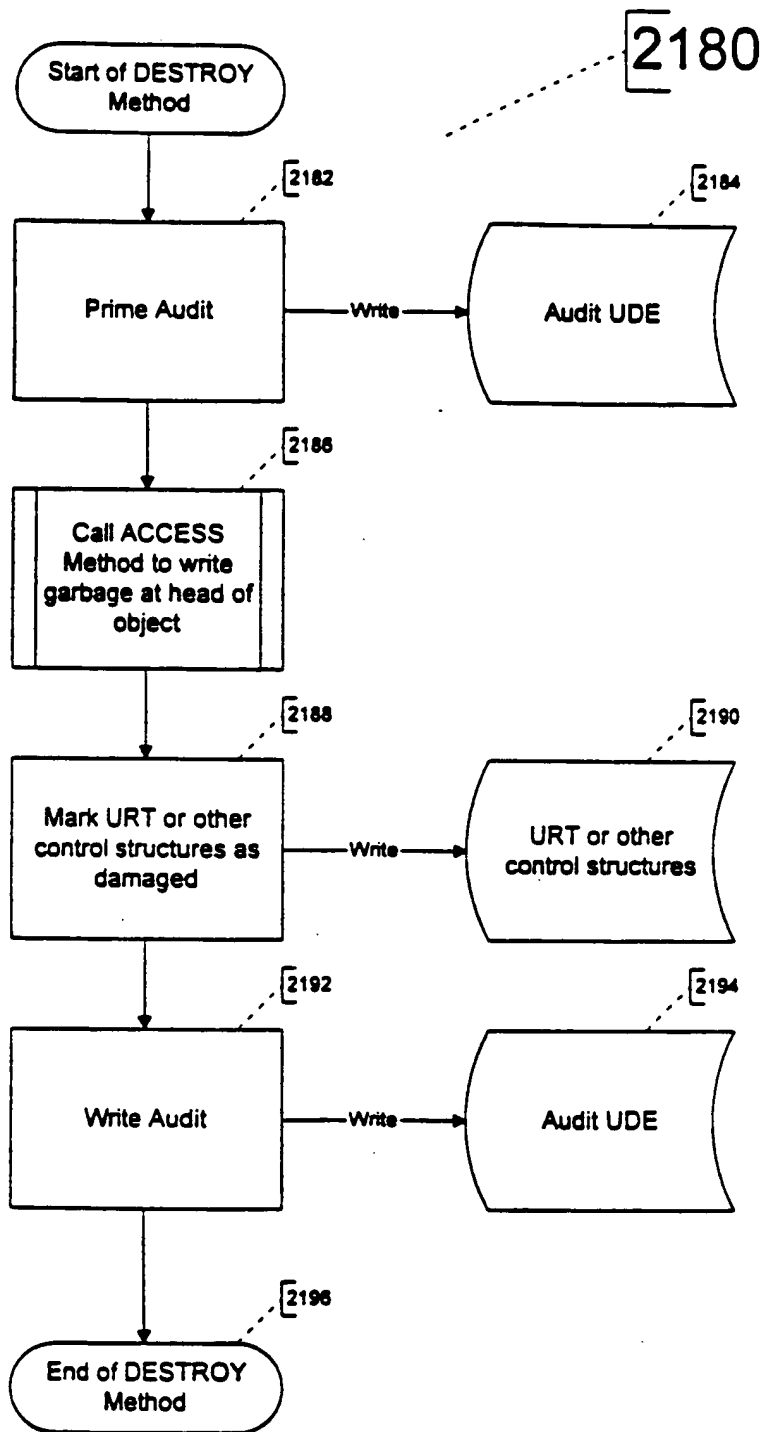


Figure 59

PANIC Method Process Flow

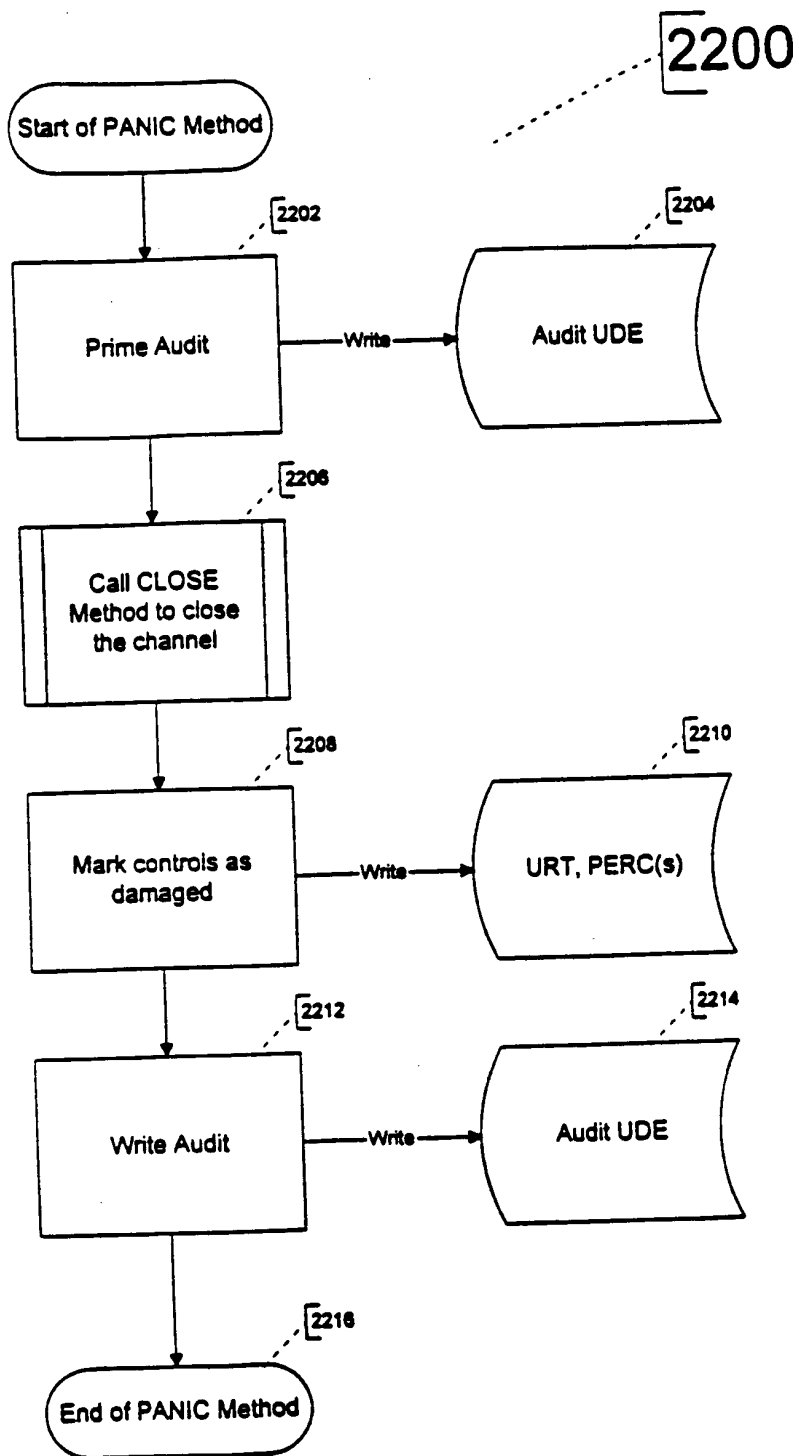


Figure 60

METER Method Use Process Flow

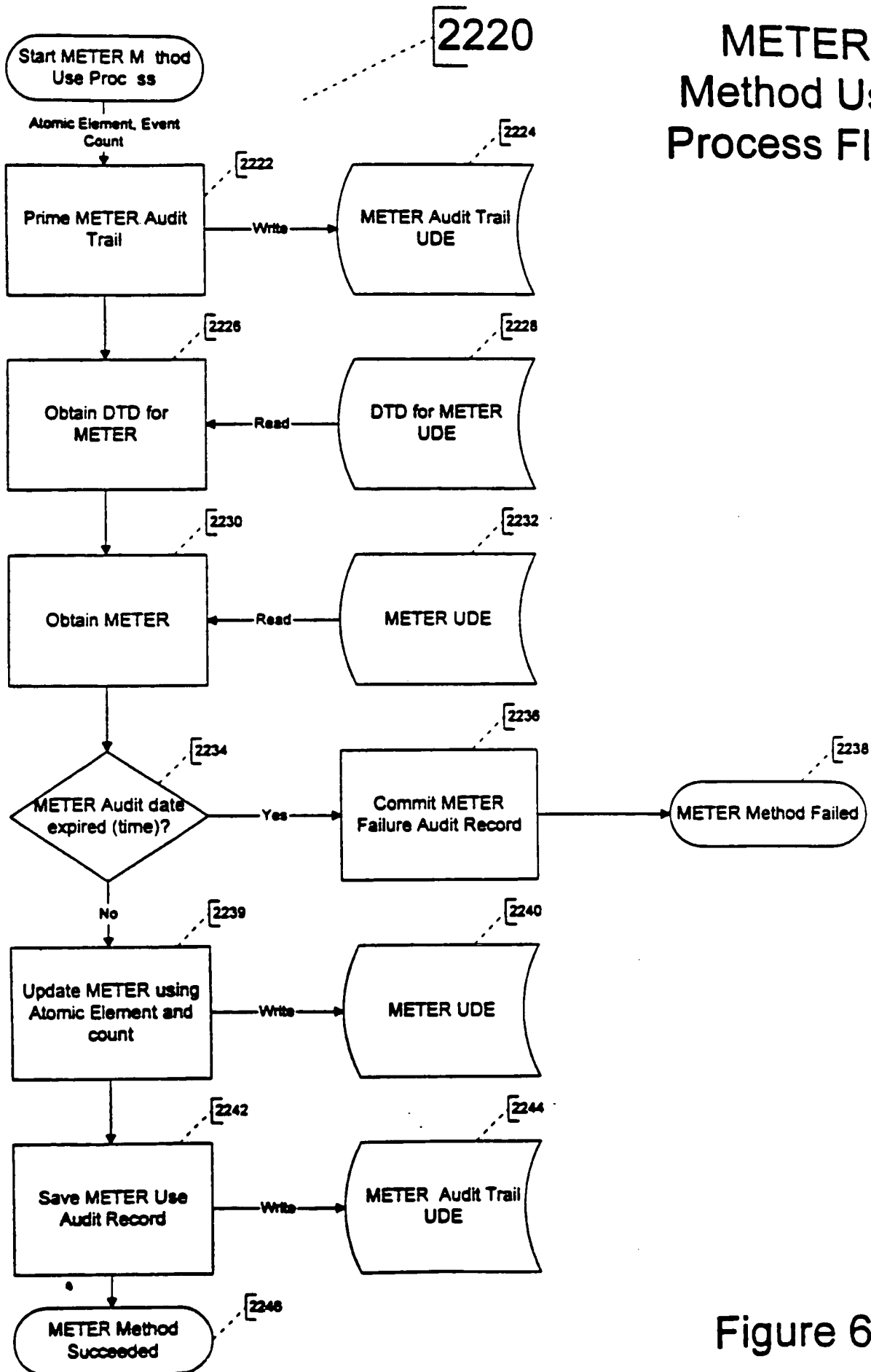
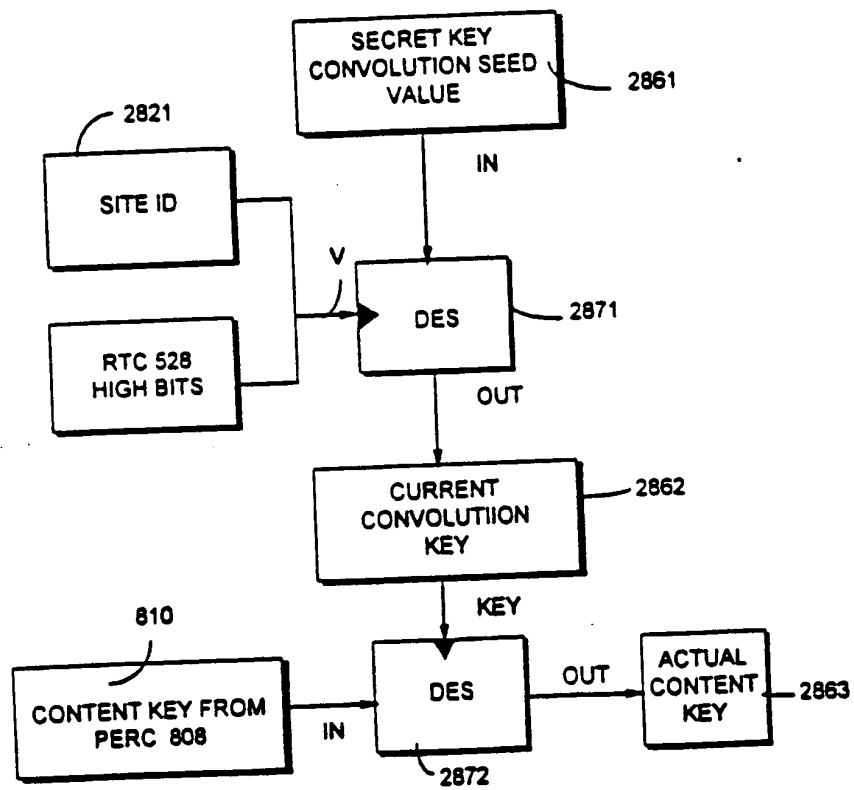


Figure 61

FIG. 62
KEY CONVOLUTION PROCESS



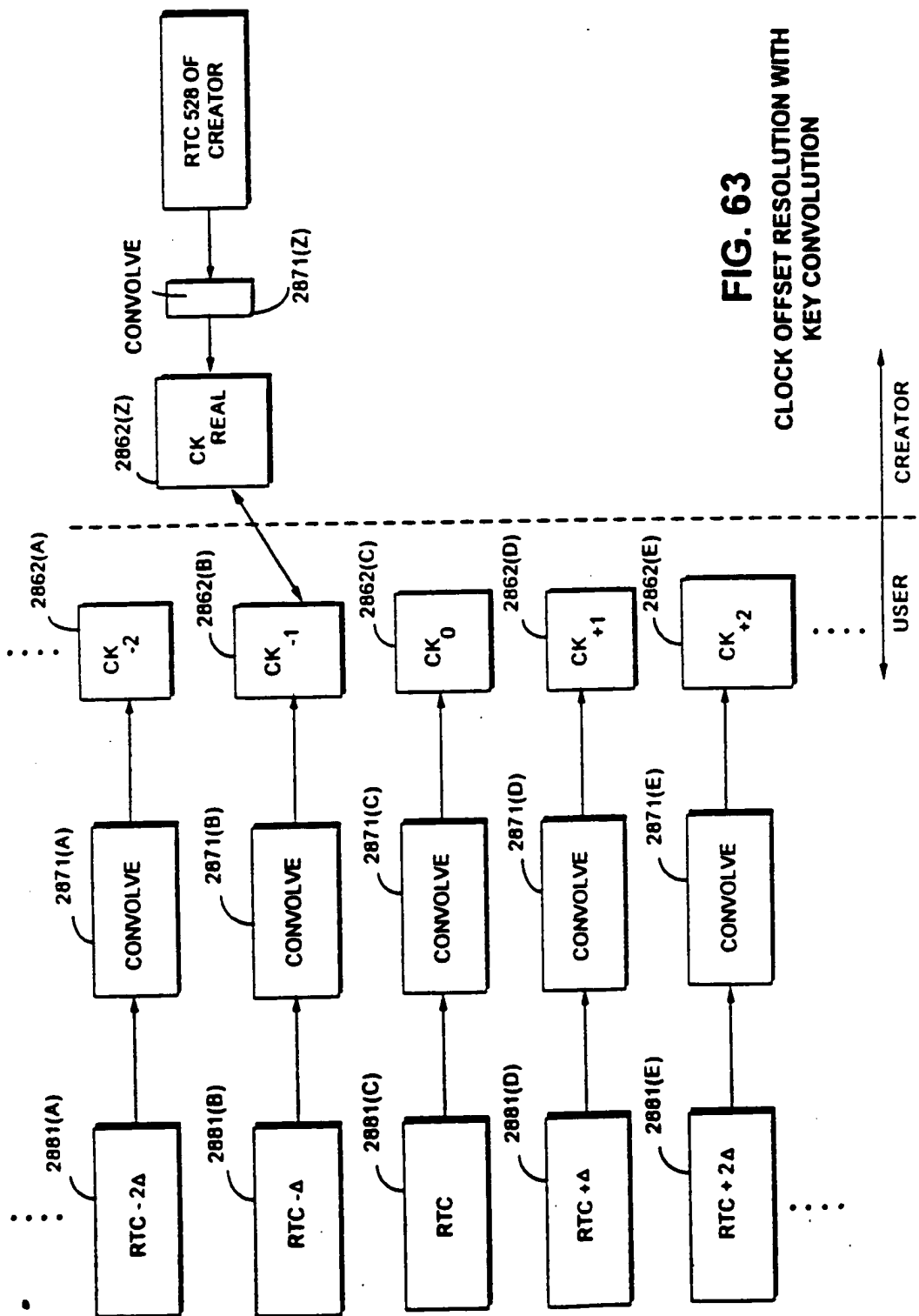


FIG. 63

**CLOCK OFFSET RESOLUTION WITH
KEY CONVOLUTION**

FIG. 64

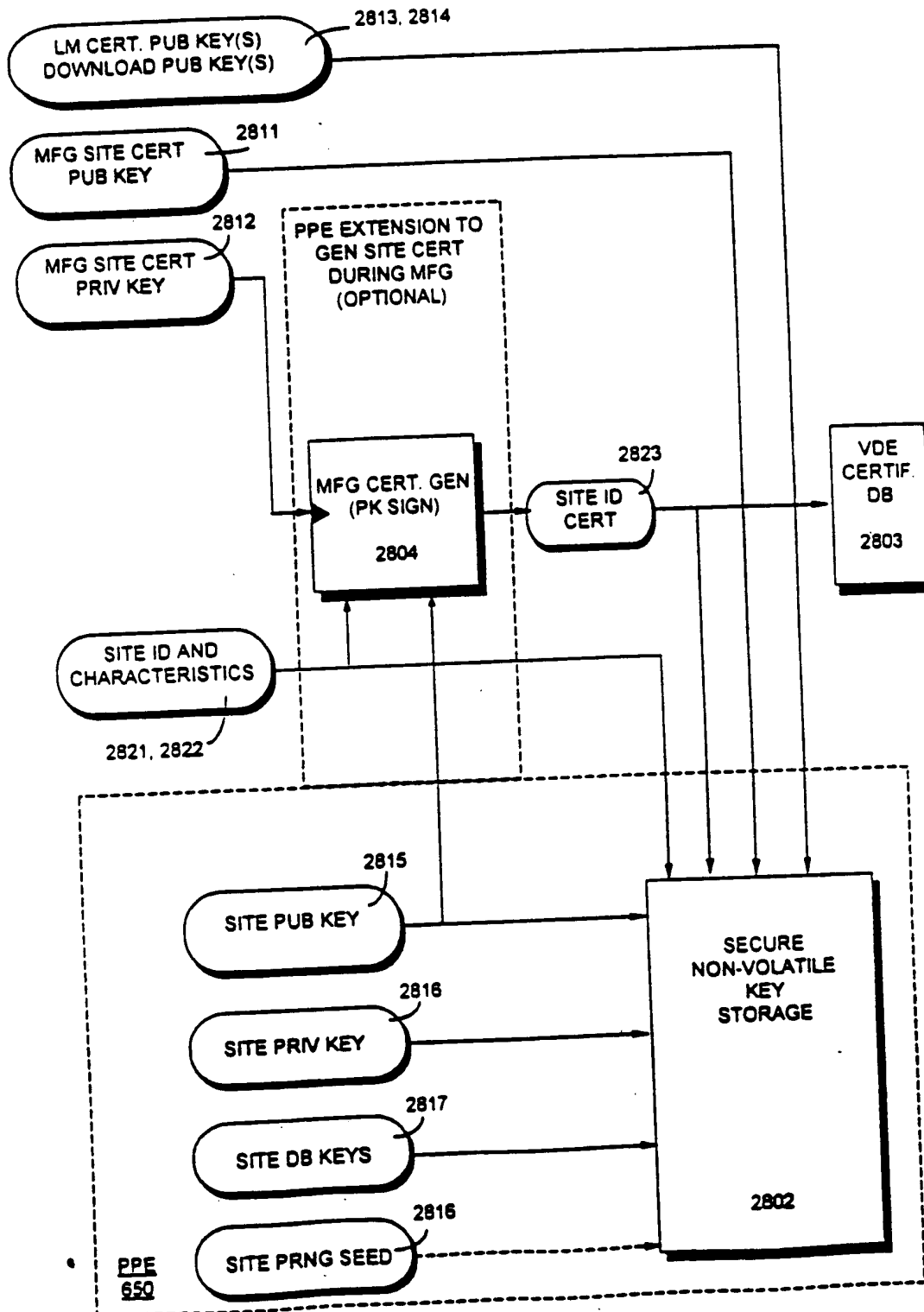
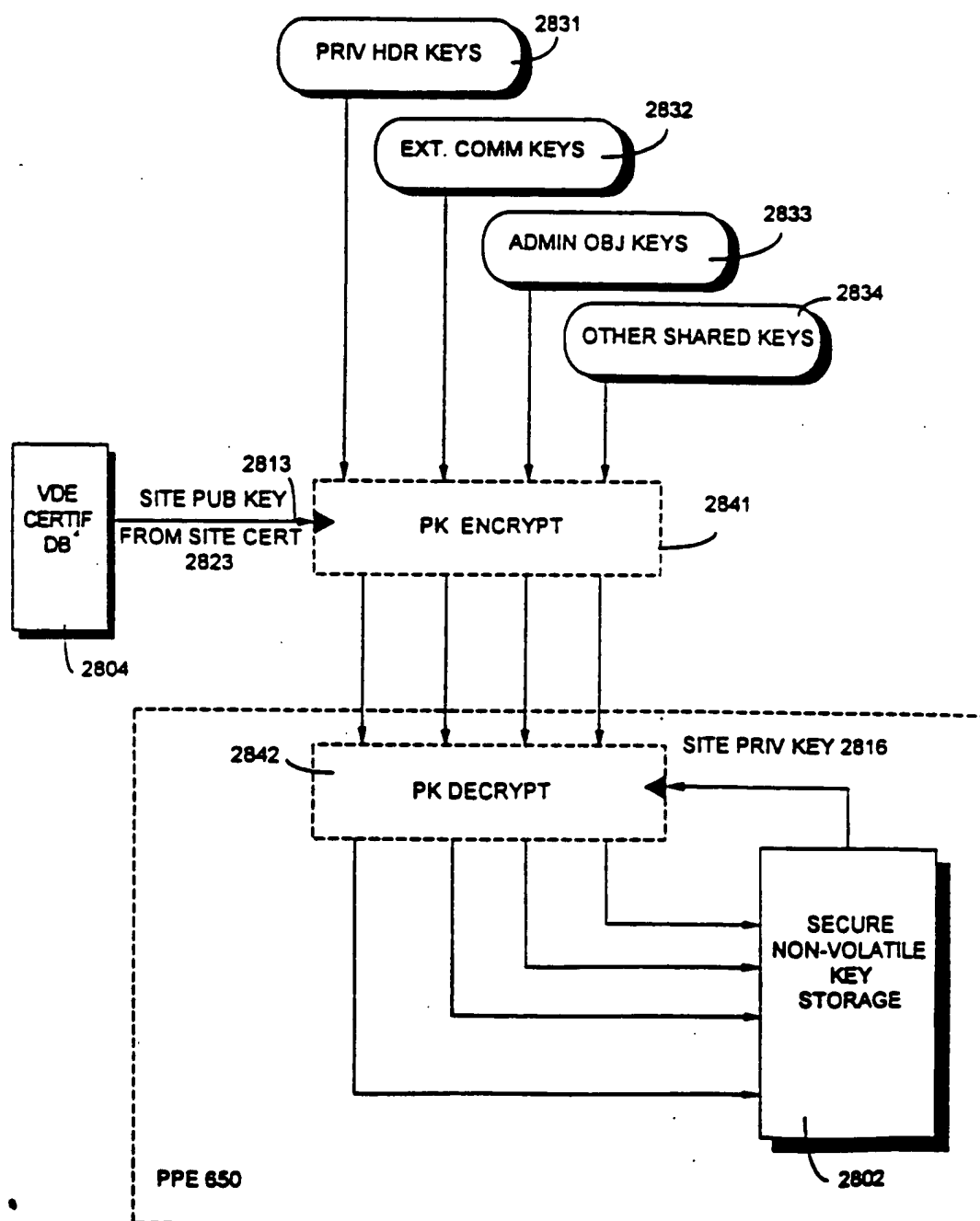


FIG. 65 KEY INSTALLATION & UPDATE



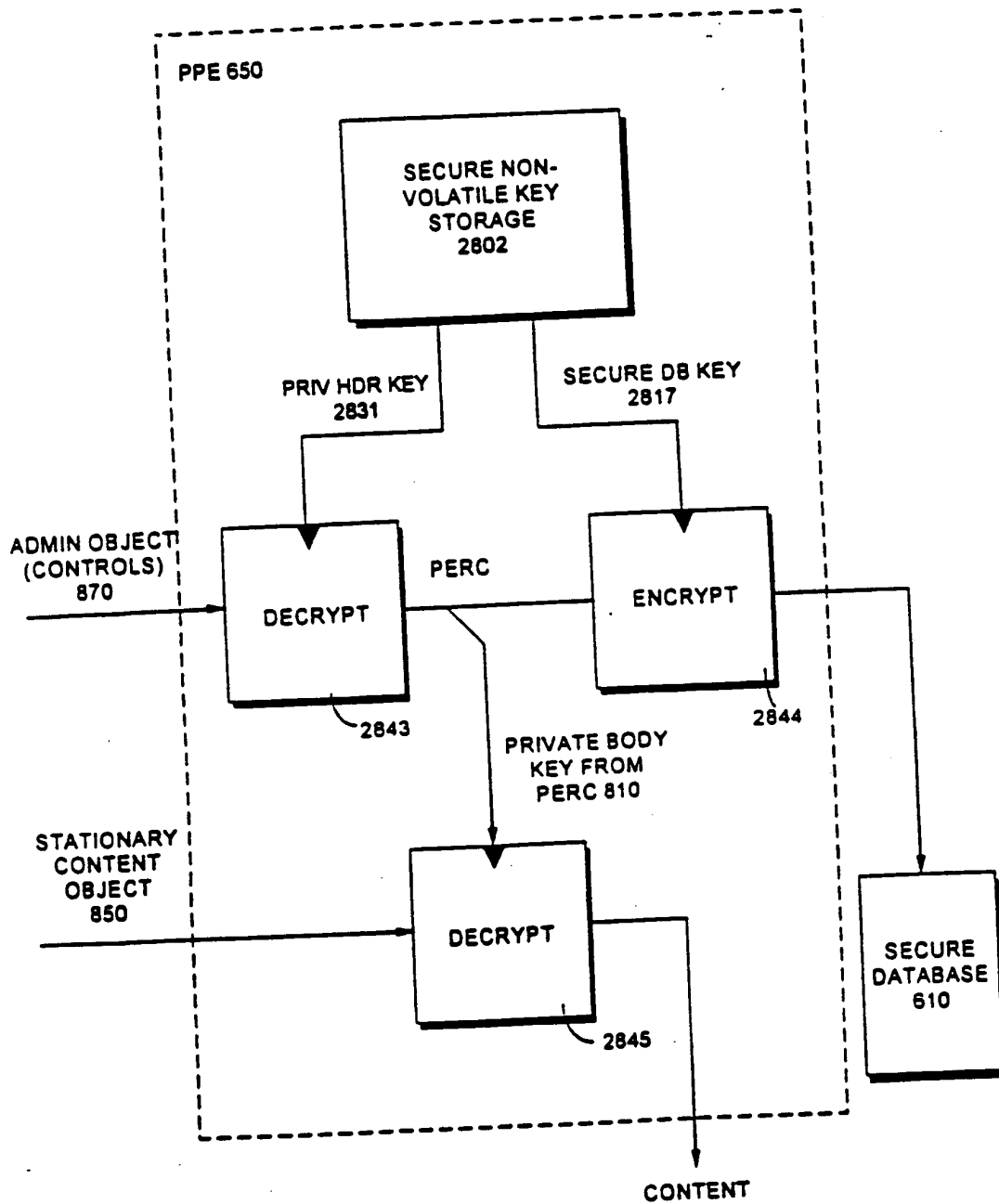


FIG. 66 STATIONARY OBJECT DECRYPTION

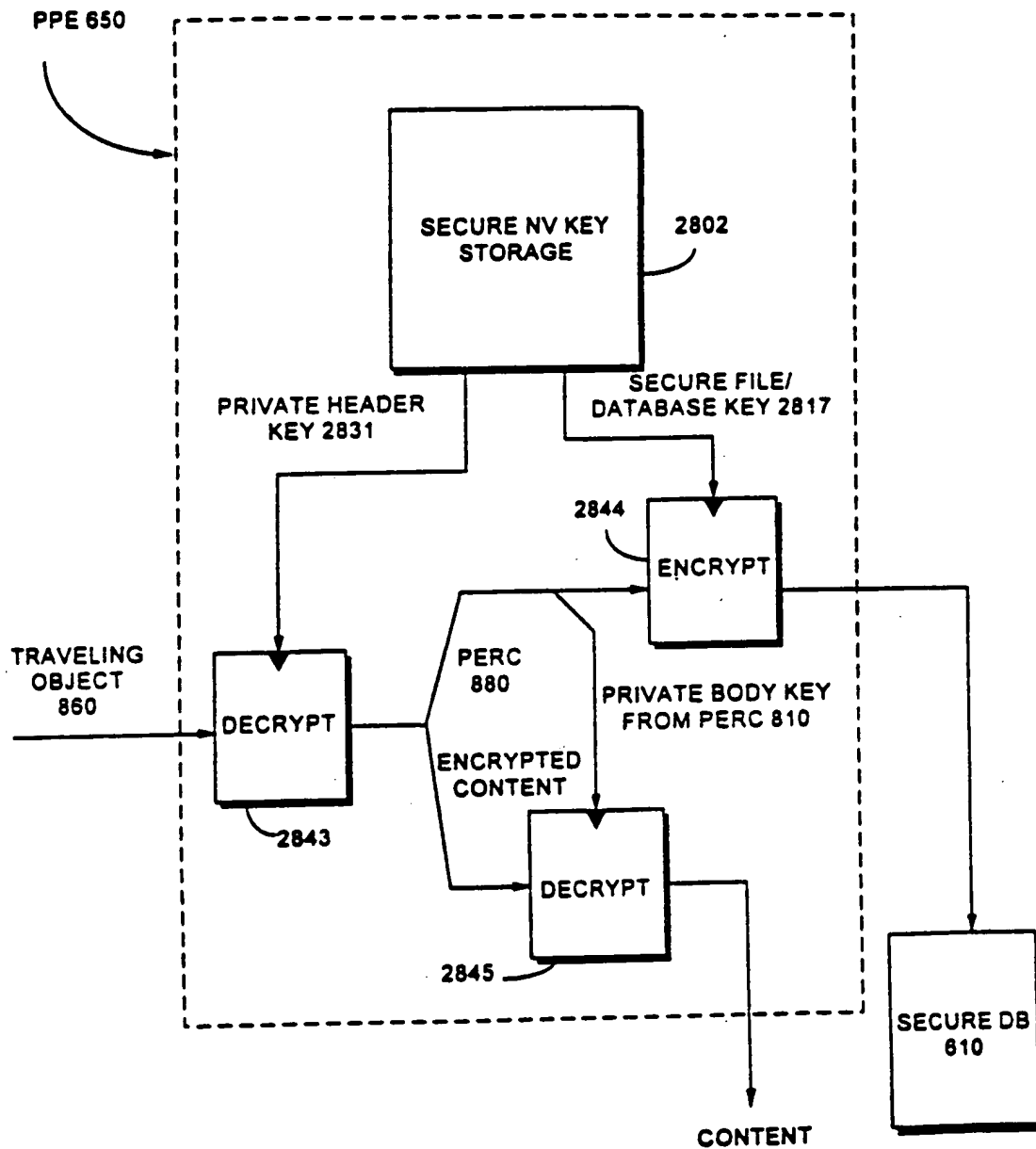
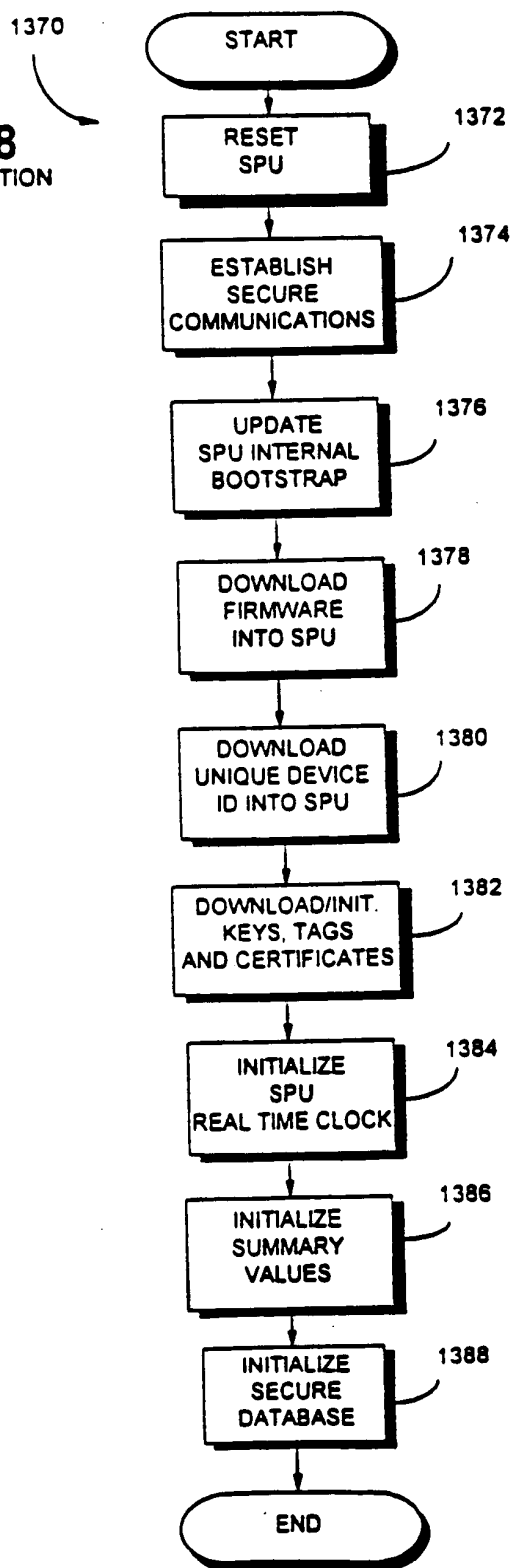


FIG. 67 TRAVELING OBJECT DECRYPTION

FIG. 68
SPU INITIALIZATION



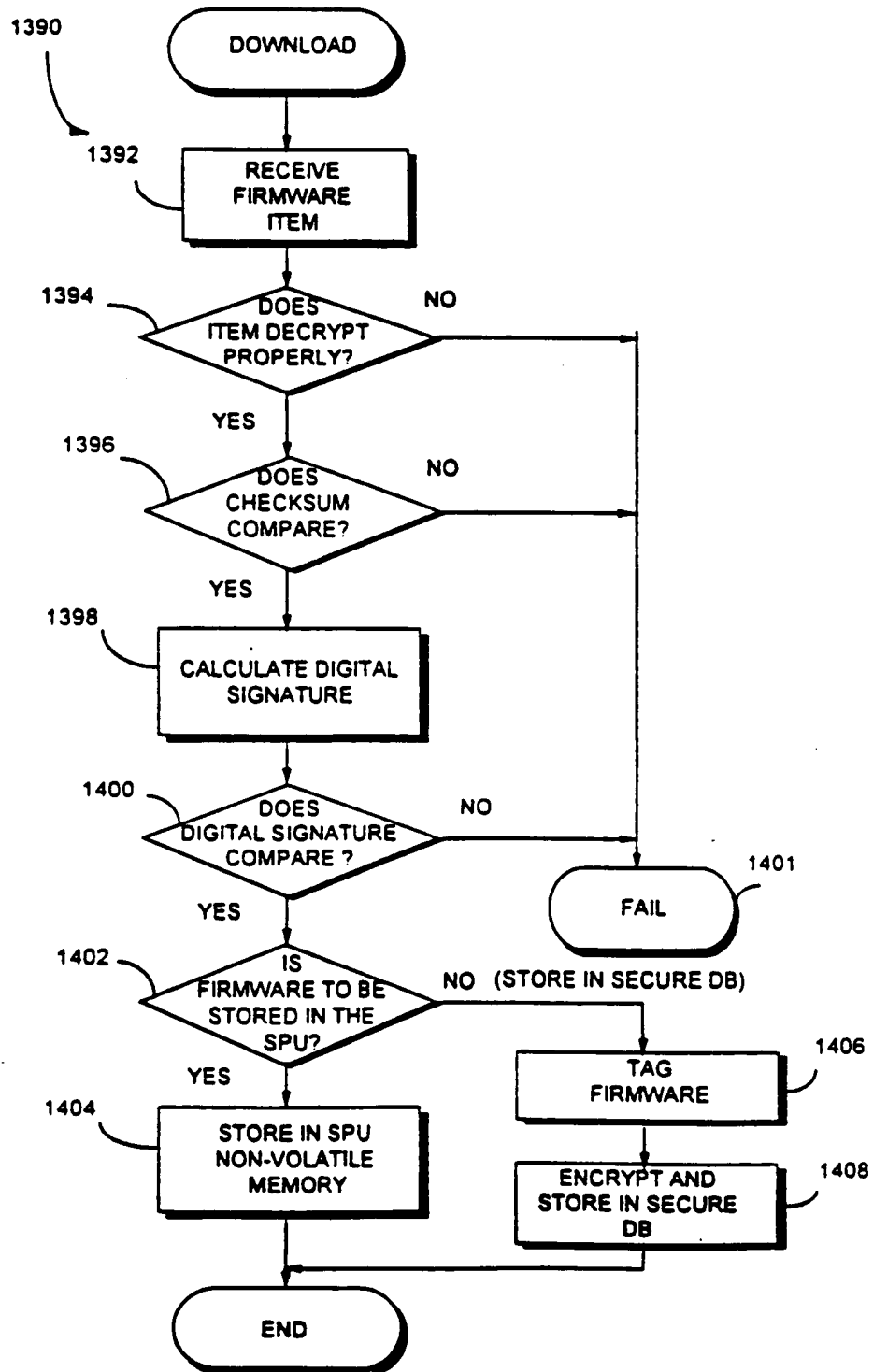


FIG. 69

SPU FIRMWARE
DOWNLOAD

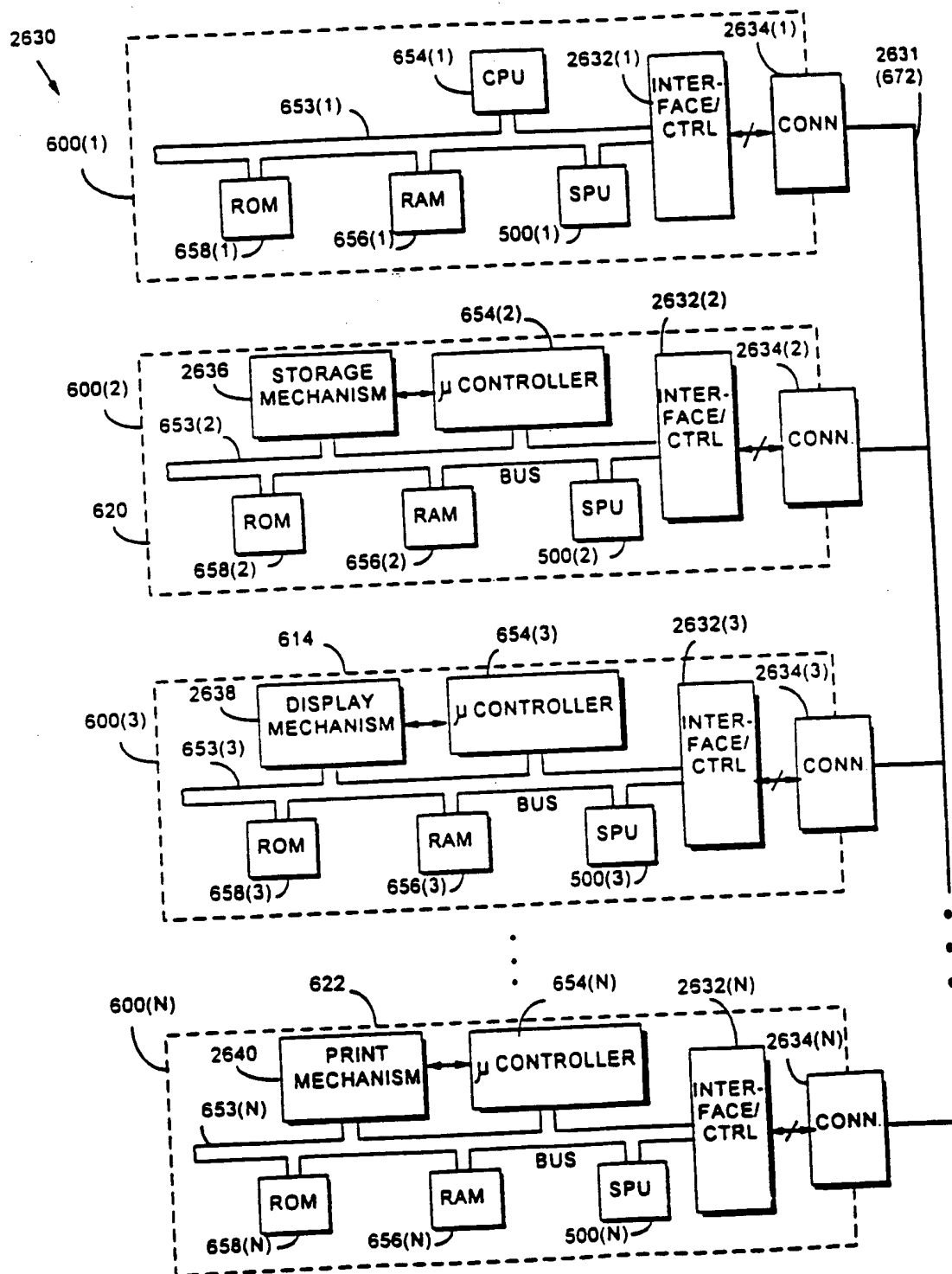
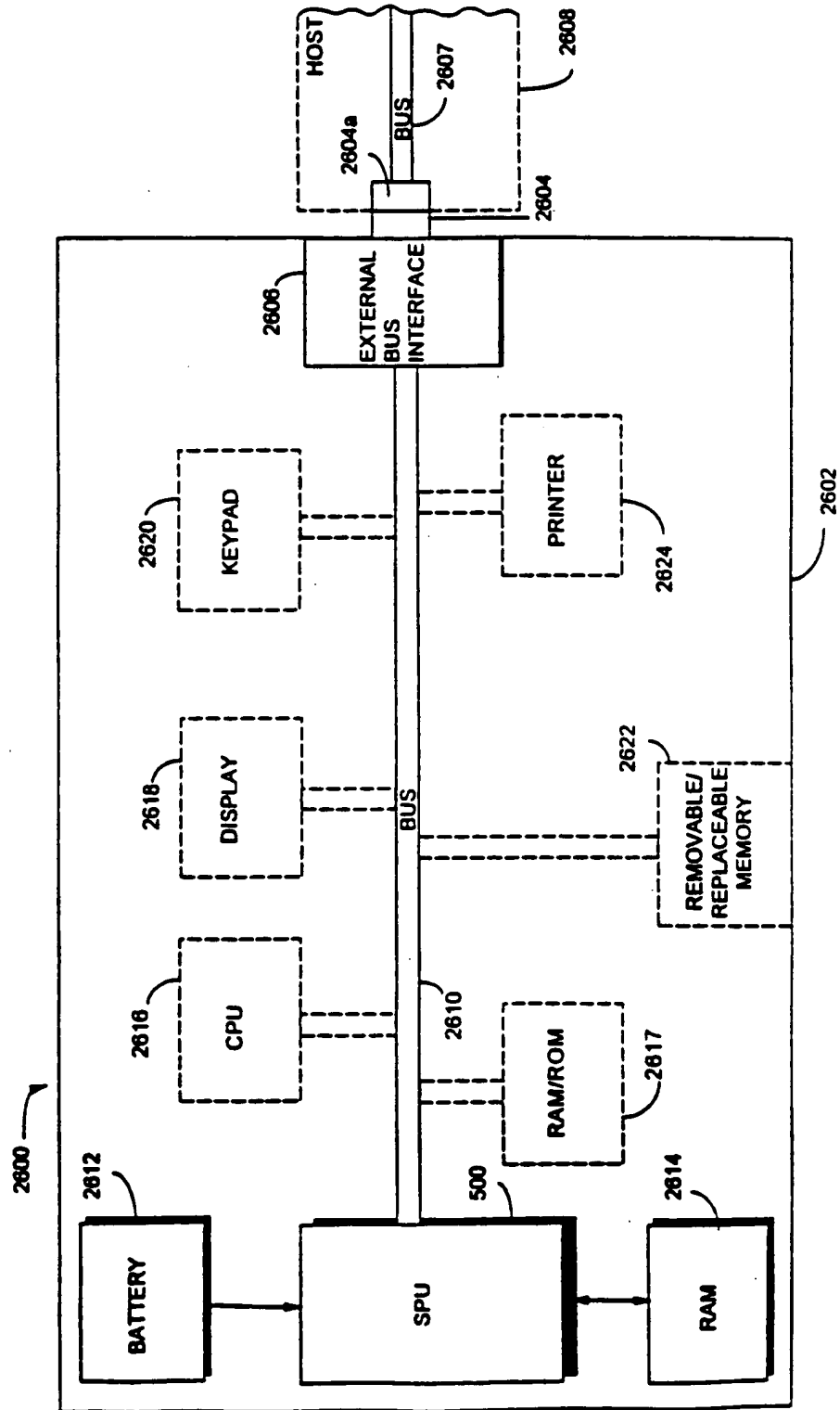


FIG. 70

FIG. 71

PORTABLE APPLIANCE



LOG IN USER INTERFACE

182

USER NAME: SHEAR, V.

PASSWORD: *

☐ LOGIN AT STARTUP

LOGIN


CANCEL

HELP

FIG. 72A

2660

YOU HAVE REQUESTED THESE PROPERTIES:



LOONEY TUNES NEWS!

2662

PROPERTY INFO

Your Cost: \$7.50

APPROVE

CANCEL

SUSPEND

MORE OPTIONS

2664

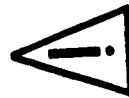
FIG. 72C

The figure shows a rectangular window titled "SET LIMITS:". Inside the window, there are four rows of labels and input fields:

- Row 1: "SESSION DOLLAR LIMIT: \$" followed by a box containing "50" with diagonal hatching. A label "2666" points to this box.
- Row 2: "TRANSACTION DOLLAR LIMIT: \$" followed by a box containing "50". A label "2668" points to this box.
- Row 3: "TIME LIMIT (IN MINUTES):" followed by a box containing "50". A label "2670" points to this box.
- Row 4: "UNIT LIMIT:" followed by a box containing "50". A label "2672" points to this box.

To the right of the first two input boxes is a vertical double-headed arrow icon. To the right of the input fields are three buttons: "OK" (top), "CANCEL" (middle), and "HELP!" (bottom). A label "2674" points to the "OK" button.

FIG. 72D



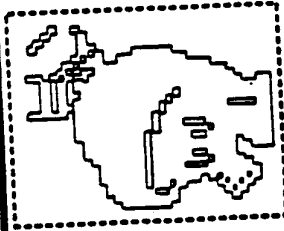
YOU HAVE REQUESTED THESE PROPERTIES:

LOONEY TUNE NEWS!

CANCEL

APPROVE

SUSPEND



Show Thumbnail

More Options ☒

YOUR COST : \$7.50

PROPERTY INFO

| PROPERTY: | SIZE: | PUBLISHER: | AMOUNT: | UNITS: | COST/UNIT: | TYPE: | USE? | LINKS: | HIST: |
|------------------------|-------|------------------|---------|---------|------------|----------|------|--------|-------|
| CHUCK JONES BIOGRA... | 256KB | WARNER NEW MEDIA | 64 | KBYTE | \$1.25 | PREVIEW | ✓ | ● | |
| ▼ BUGS BUNNY.JPE... | 1MB | WARNER NEW MEDIA | 1 | RECORD | \$5.00 | DISPLAY | ✓ | ▲ | ● |
| BUGS BUNNY.JPEG... | 1MB | WARNER NEW MEDIA | 10 | RECORD | \$3.50 | DISPLAY | | ▲ | ● |
| BUGS BUNNY.JPEG... | 1MB | WARNER NEW MEDIA | 25 | RECORD | \$2.50 | DISPLAY | | ▲ | ● |
| FRIZ FRELENG BIOGRA... | 256KB | WARNER NEW MEDIA | 120 | SECTOR | \$5.00 | PRINT | | | |
| TEX AVERY BIOGRAP ... | 256KB | WARNER NEW MEDIA | 50 | PERCENT | \$2.50 | COPY | | ▲ | |
| ► DUCKI RABBITI DU... | 64MB | WARNER NEW MEDIA | 7.0 | MINUTE | \$7.50 | COPY-PRO | | ▲ | |
| MEL BLANC BIOGRAPH... | 256KB | WARNER NEW MEDIA | 1 | SPECIAL | \$25.25 | INSTALL | | ▲ | |
| LOONEY TUNES DATAB... | 600MB | WARNER NEW MEDIA | 1 | OBJECT | \$2000.00 | ALL | | ▲ | ● |

SET LIMITS... SHOW BUDGETS ACQUIRE BUDGET... HISTORY... TRANSFER... PREFERENCES... FEEDBACK... HELP!

FIG. 73

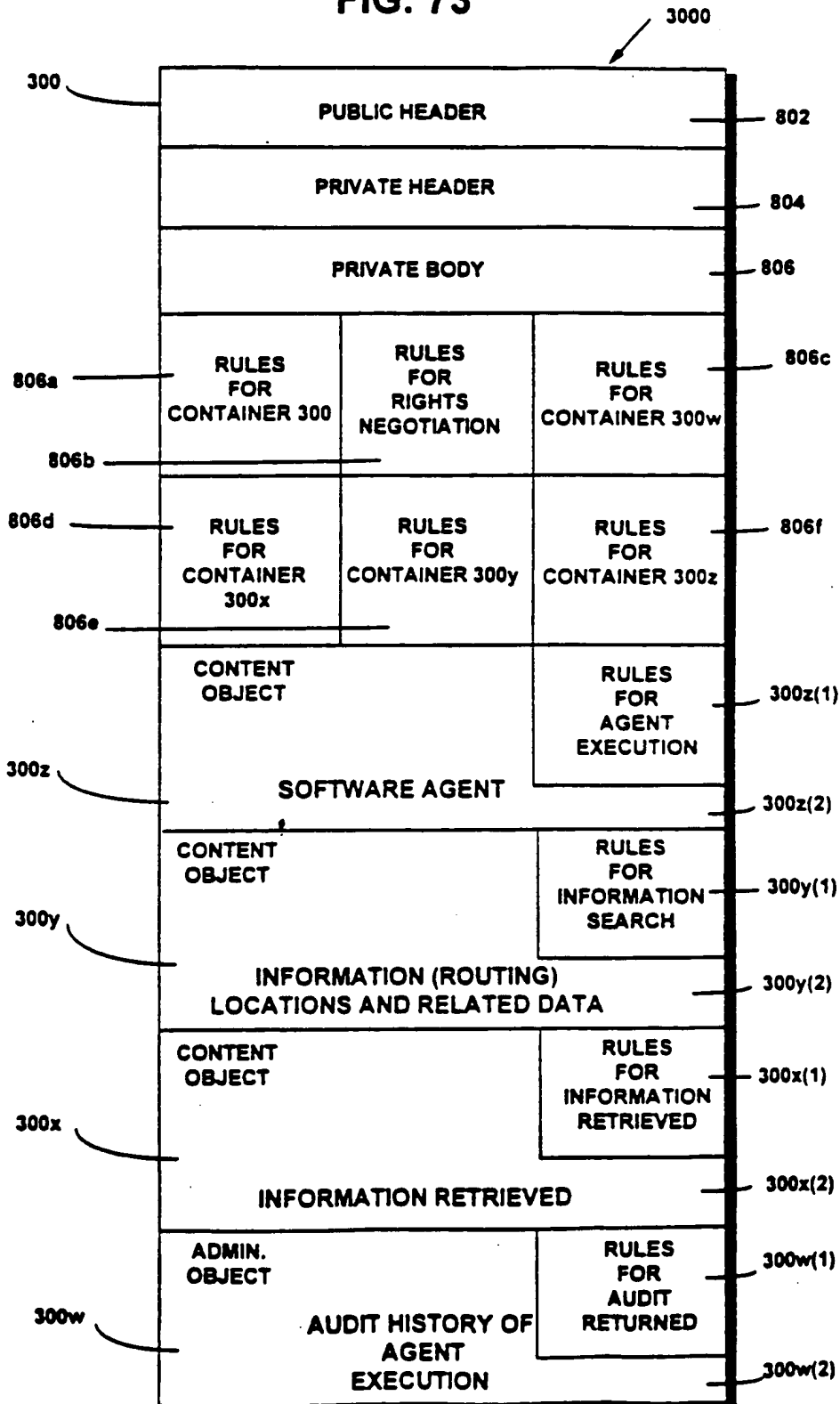


FIG. 74

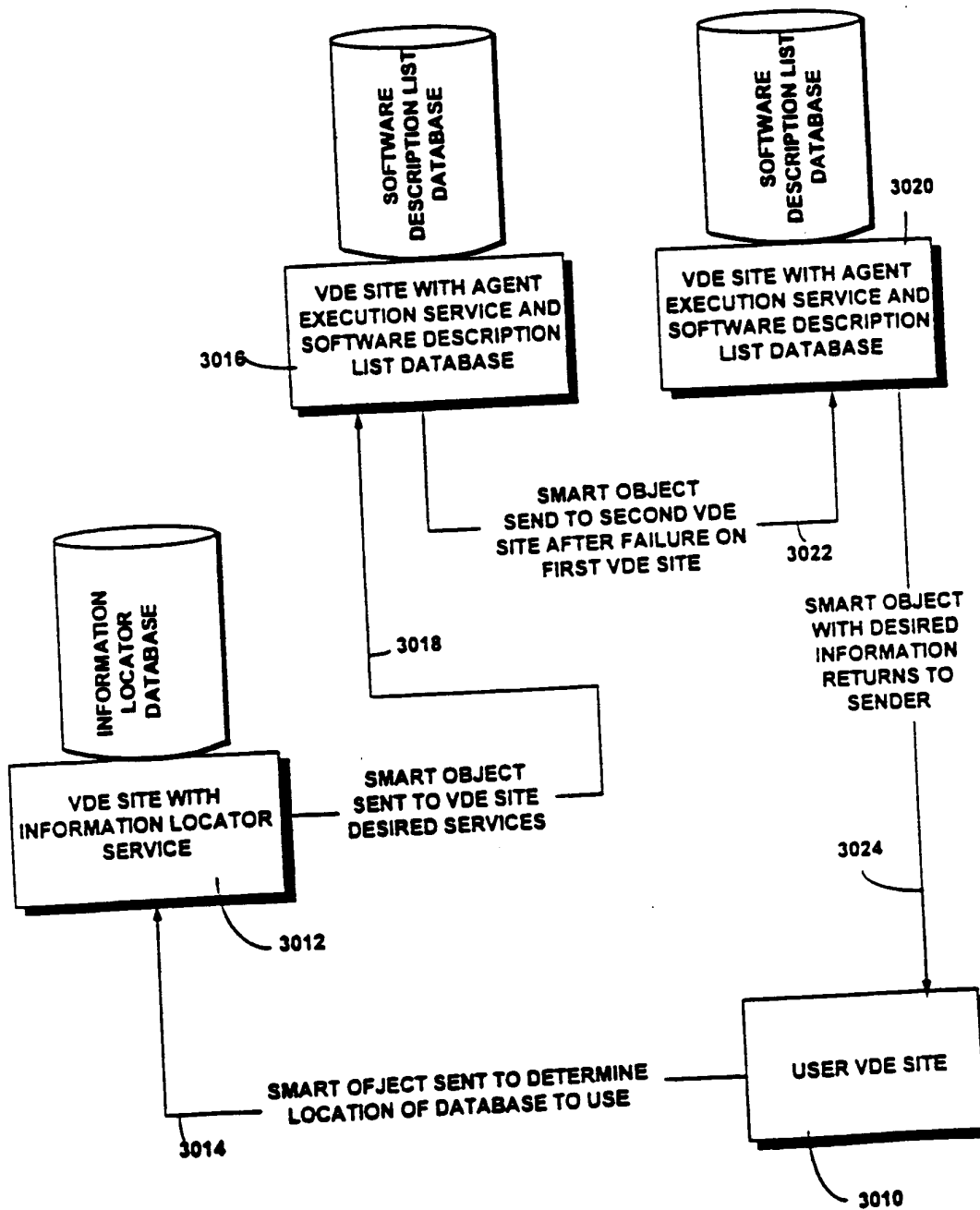


FIG. 75A

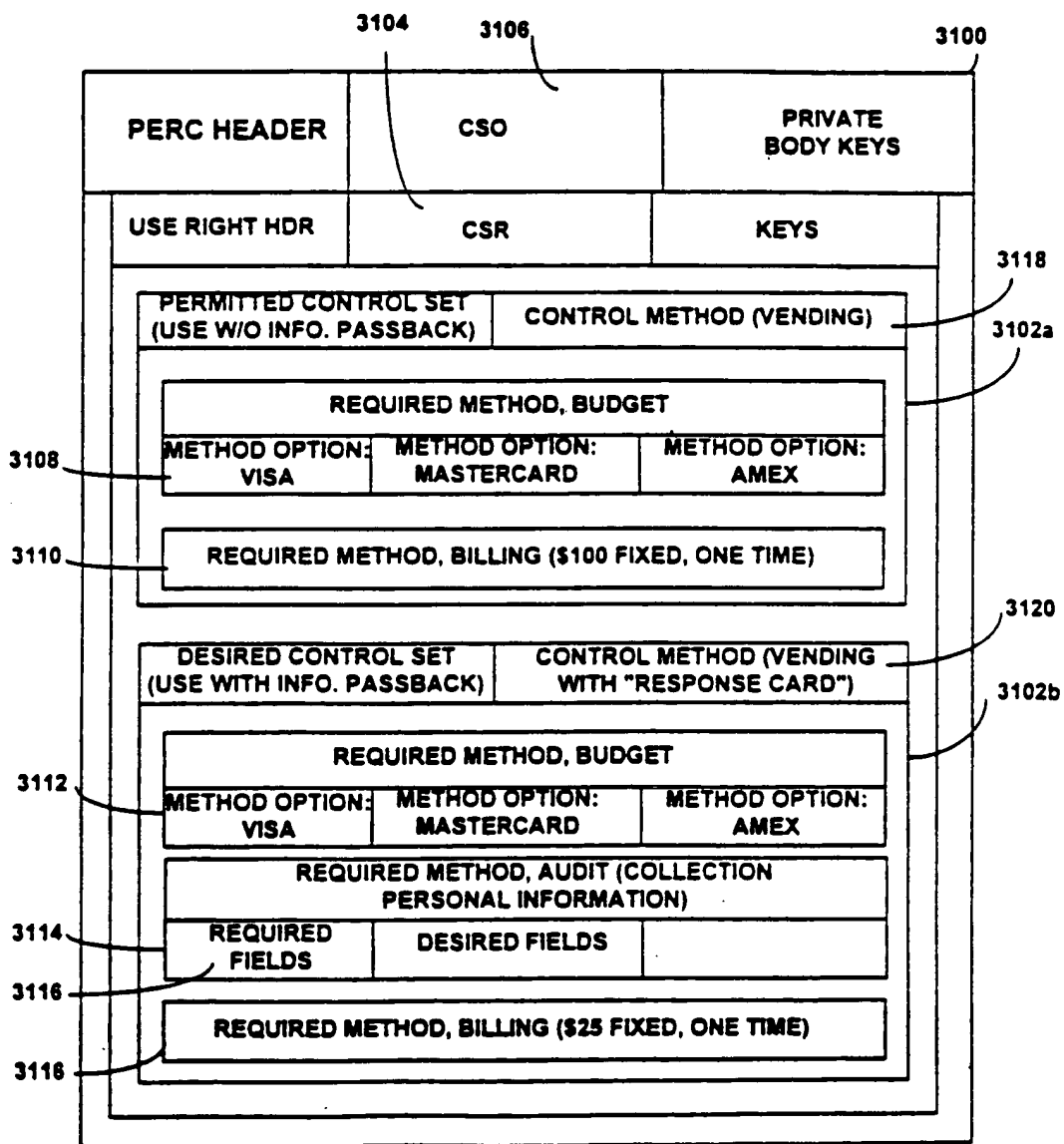


FIG. 75B

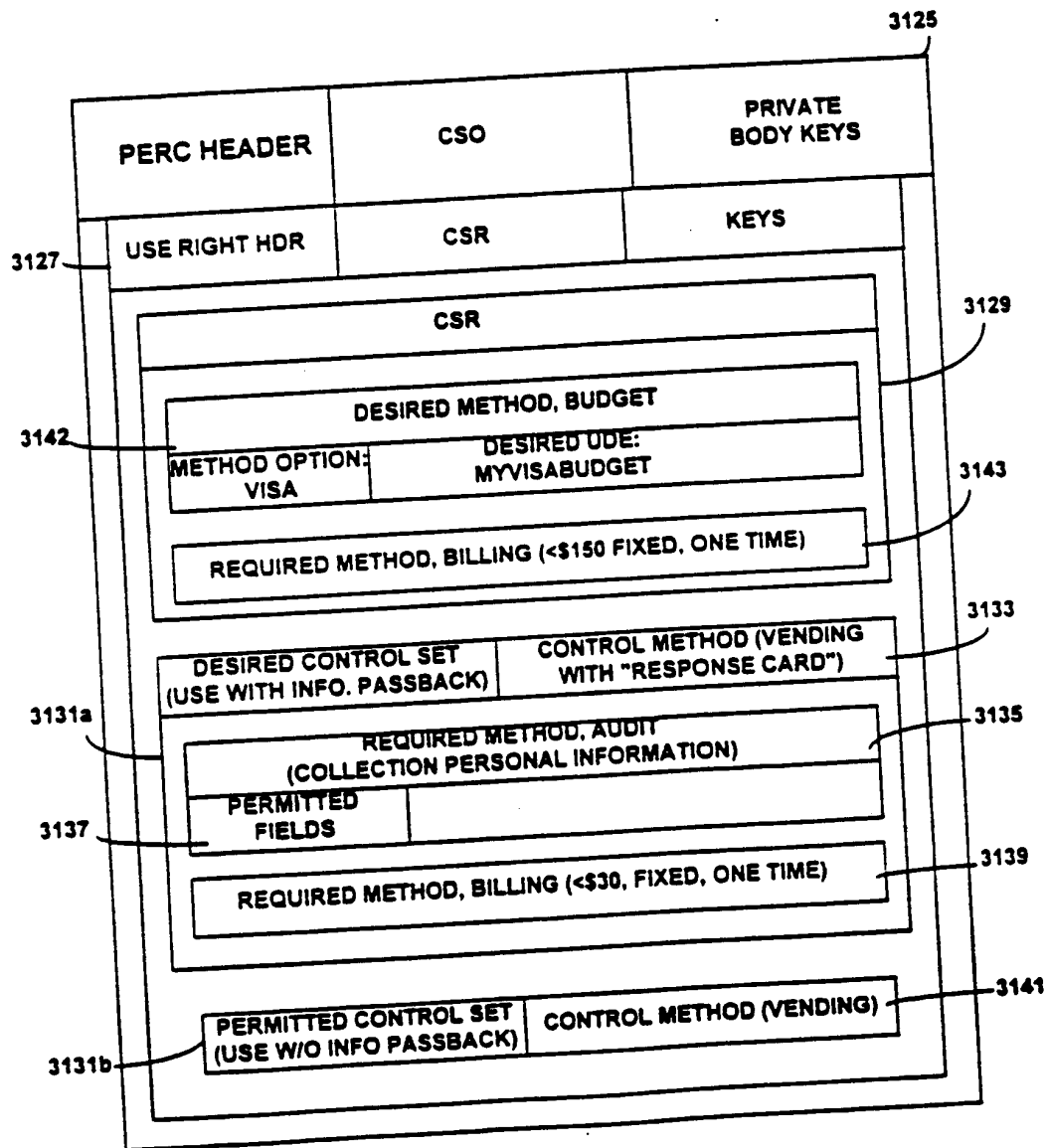


FIG. 75C

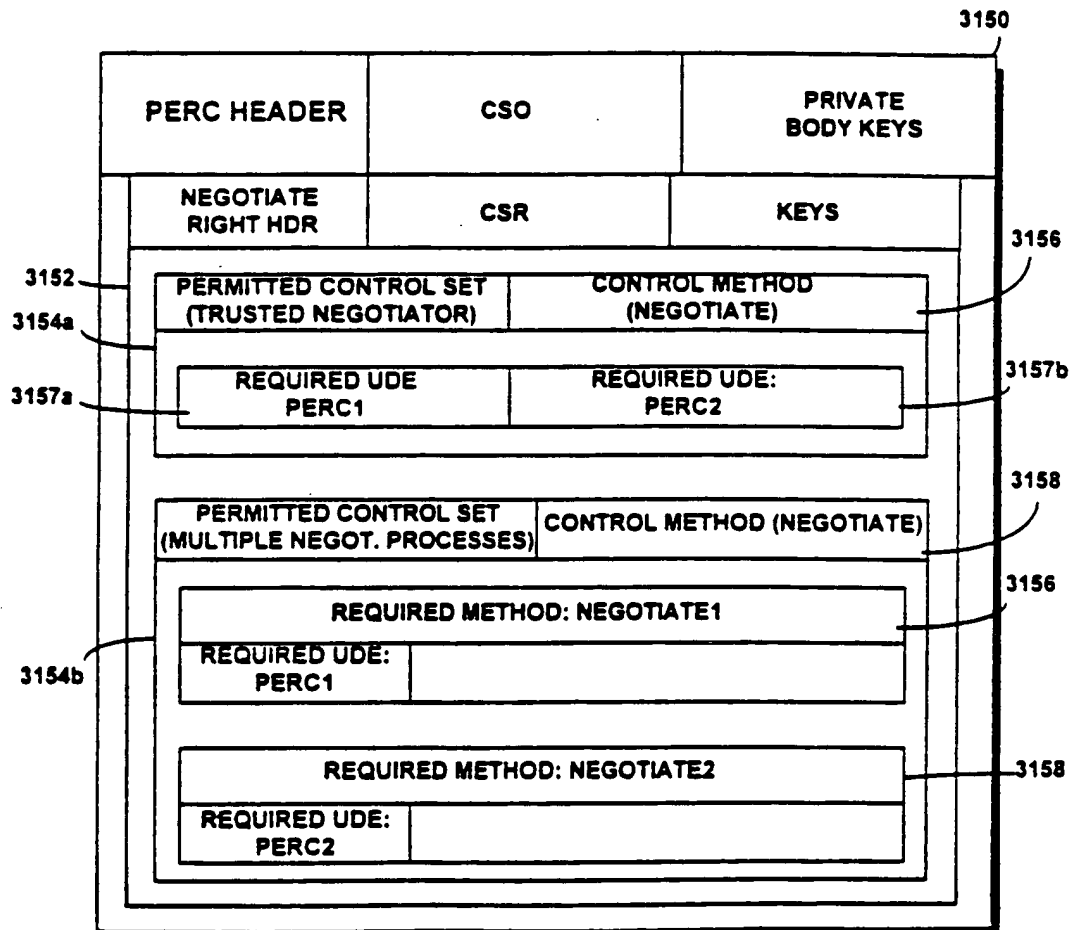


FIG. 75D

| | | | |
|---|-------------------------------------|---|--------------------------|
| URT HEADER | | CSO | DIGITAL SIGNATURE |
| USE RIGHT HDR | | CSR | |
| CONTROL SET(USE WITH INFO. PASSBACK) | | CONTROL METHOD(VENDING WITH "RESPONSE CARD") | |
| REQUIRED METHOD, BUDGET | | | |
| METHOD OPTION: VISA | DESIRED UDE: MYVISABUDGET | | |
| REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION) | | | |
| PERMITTED FIELDS | | | |
| REQUIRED METHOD, BILLING(\$25, FIXED, ONE TIME) | | | |

3160

3162

3164

3166

3170

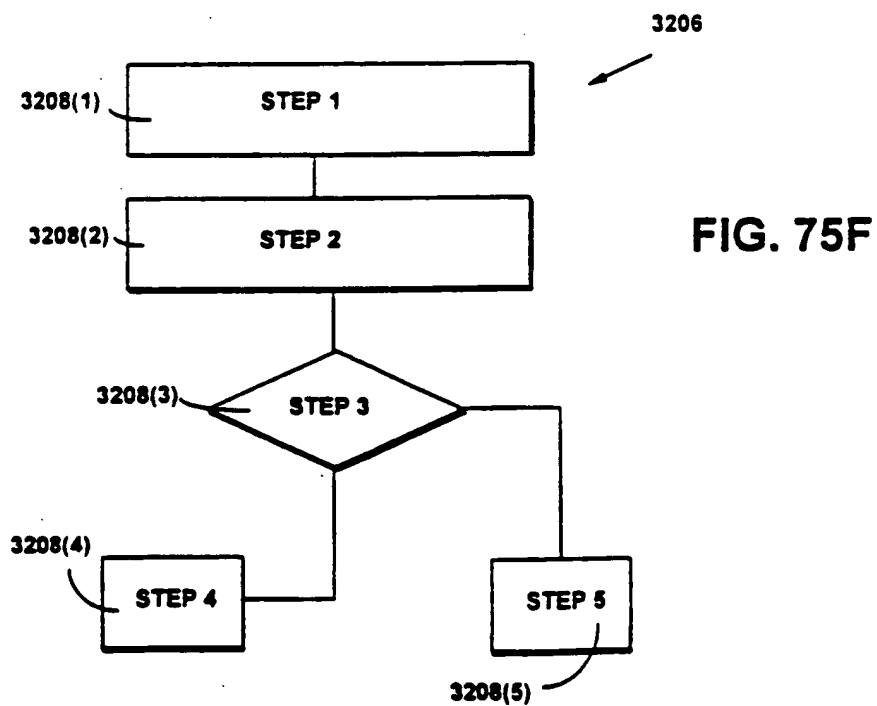
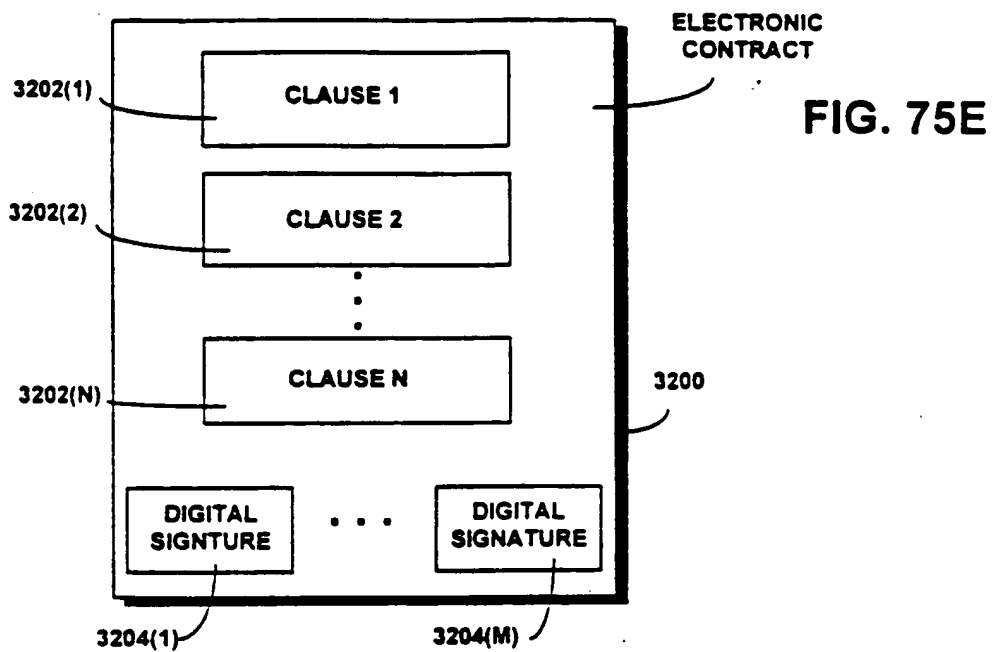


FIG. 76A

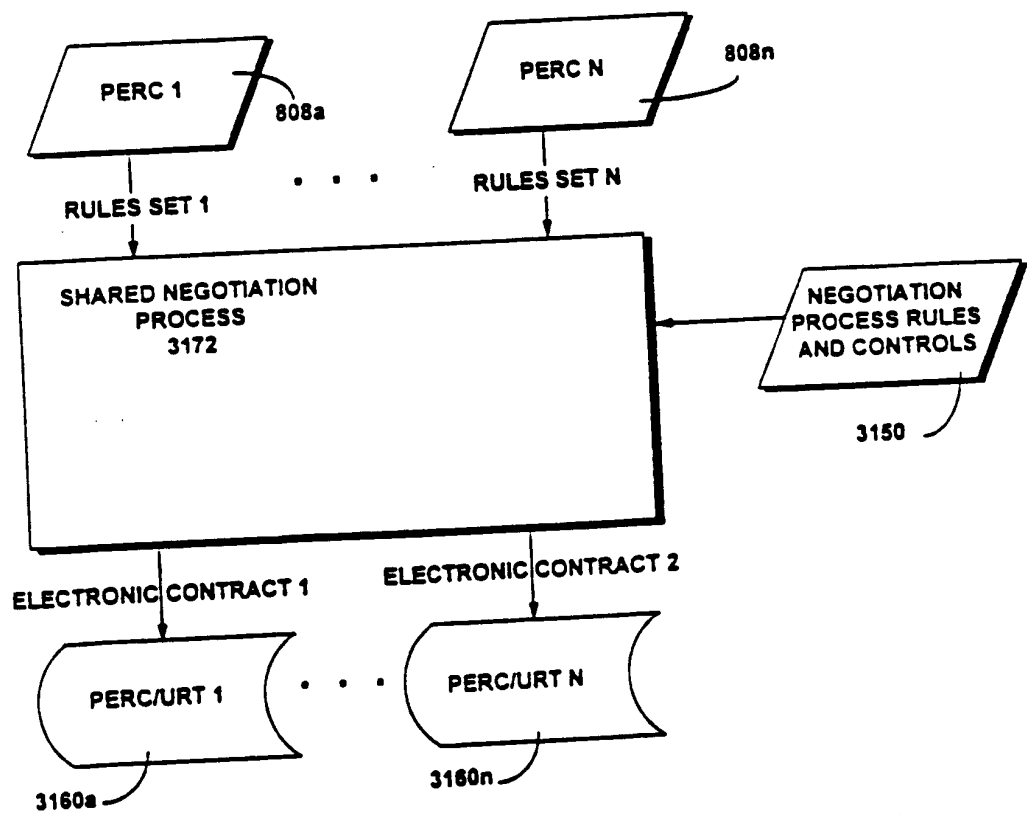


FIG. 76B

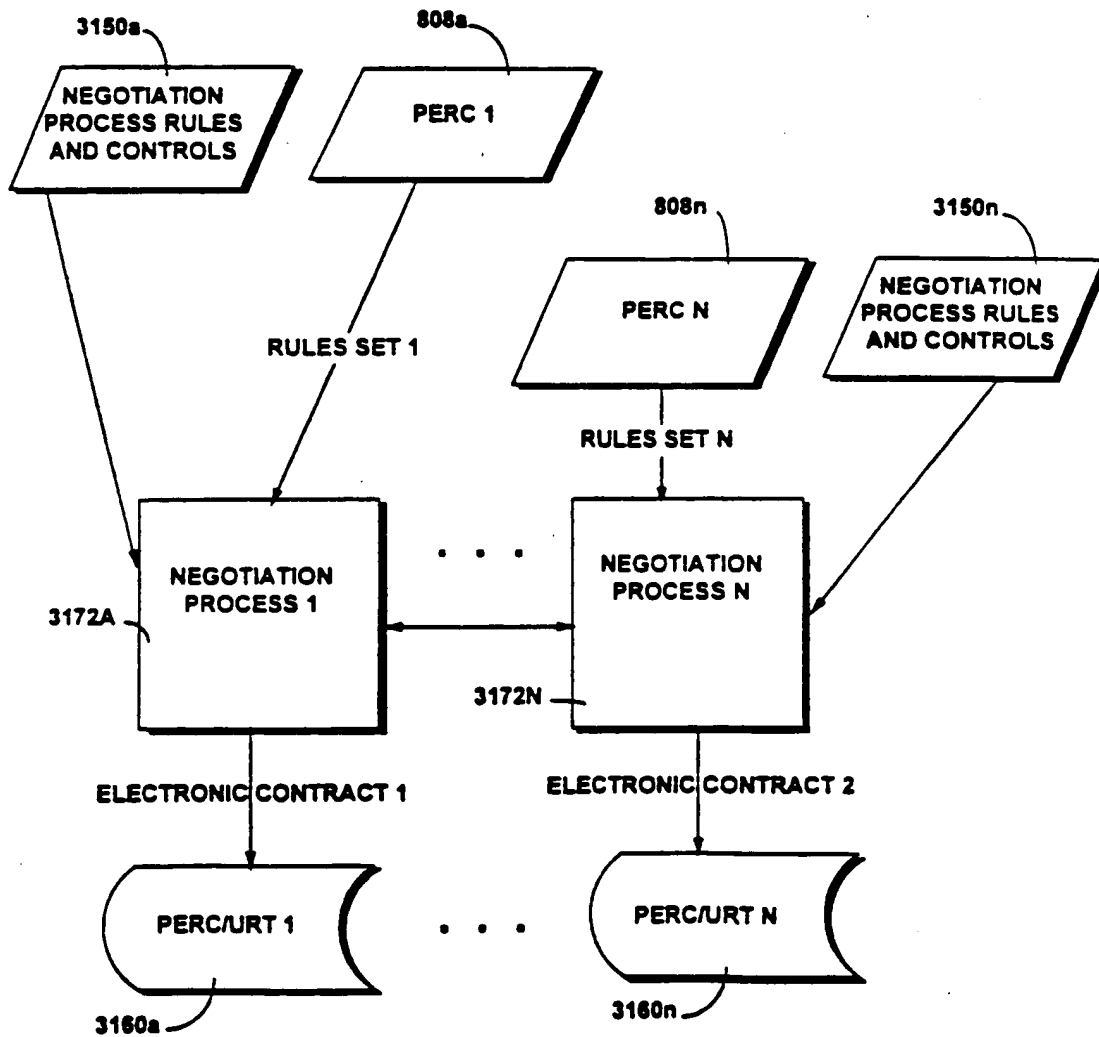
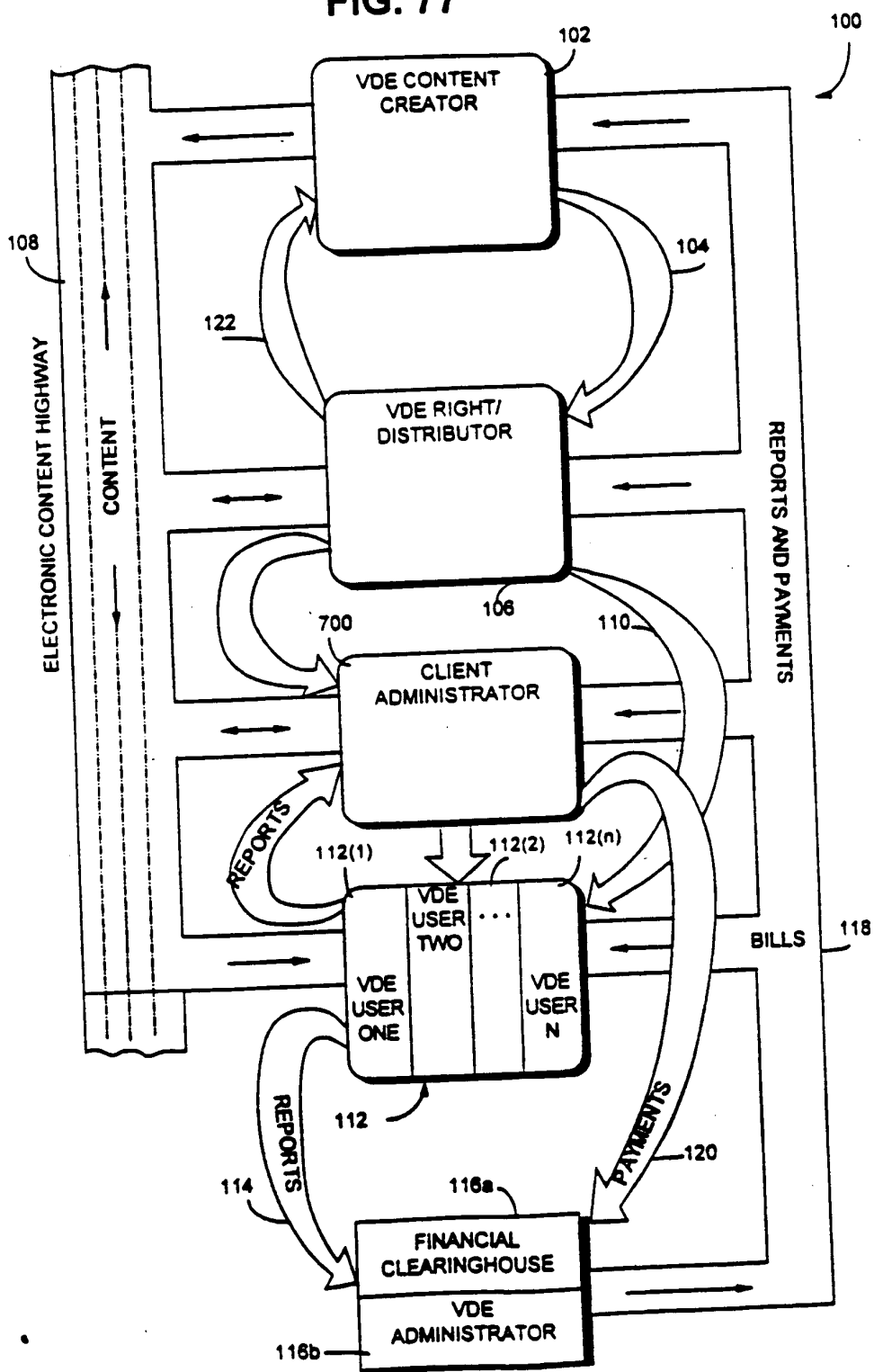


FIG. 77



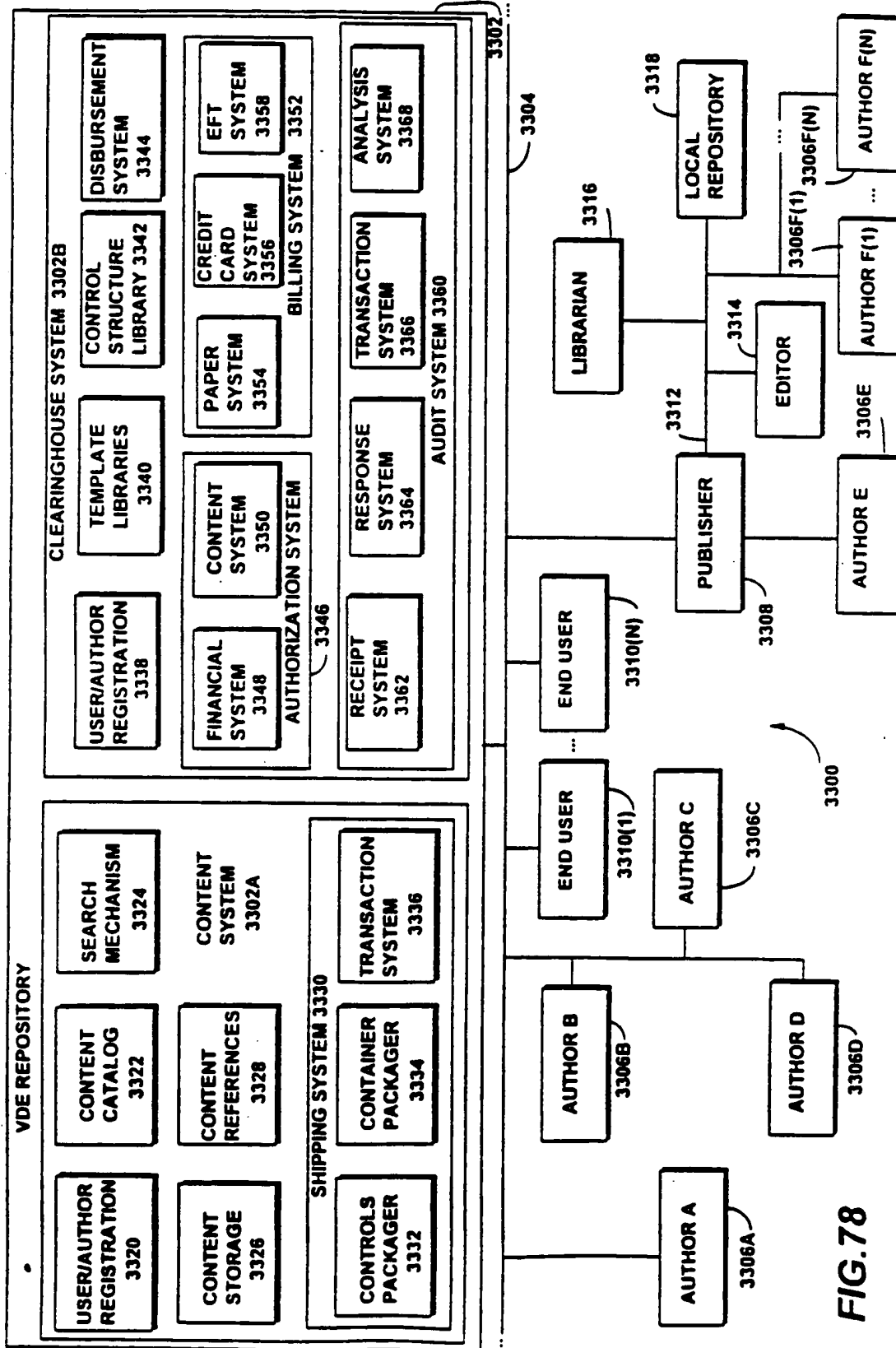


FIG.78

FIG. 79

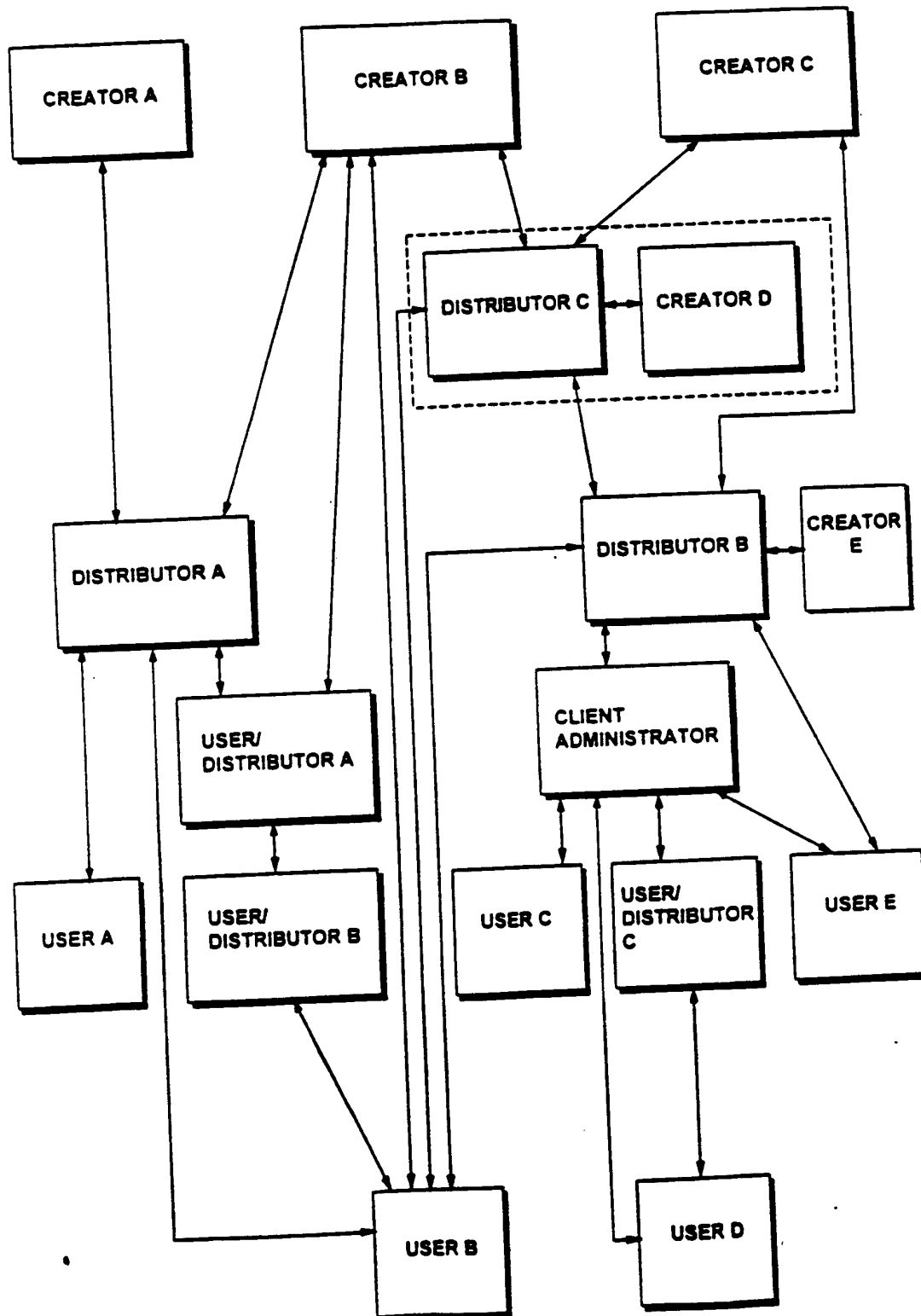
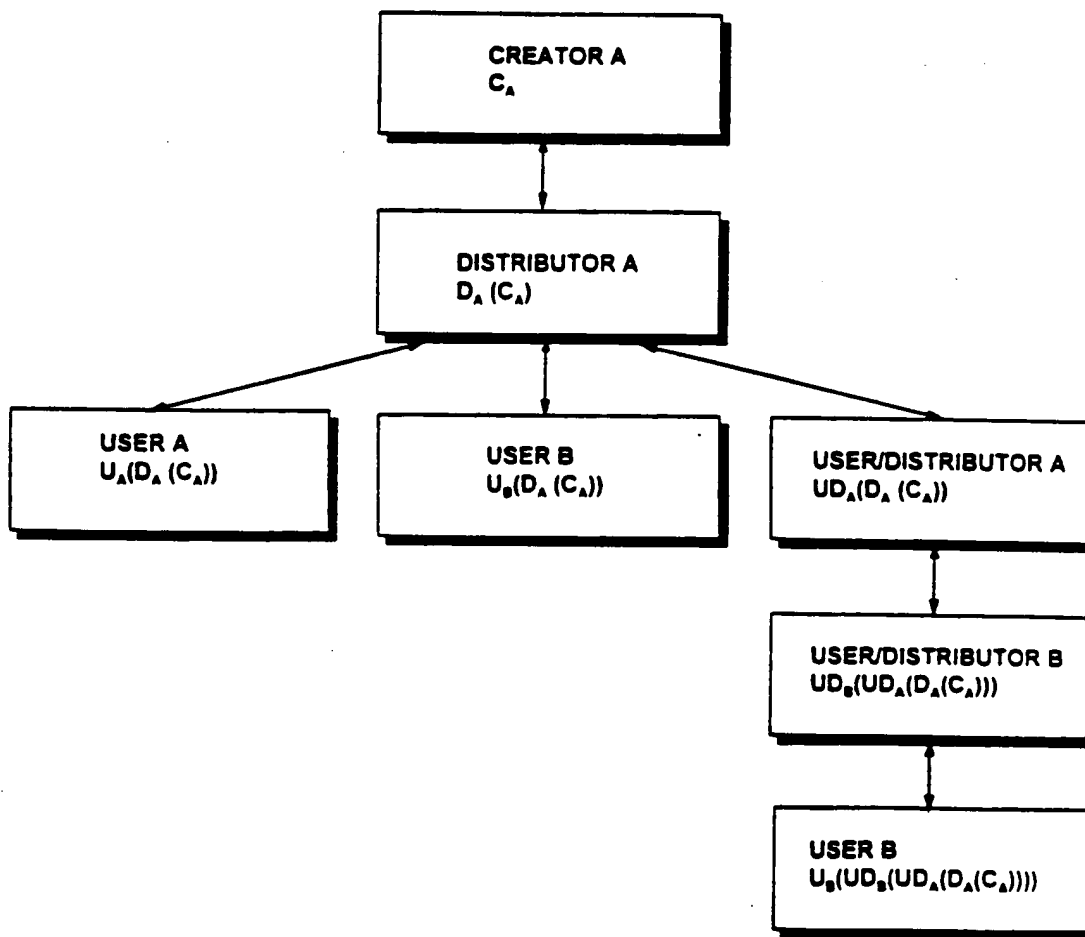


FIG. 80



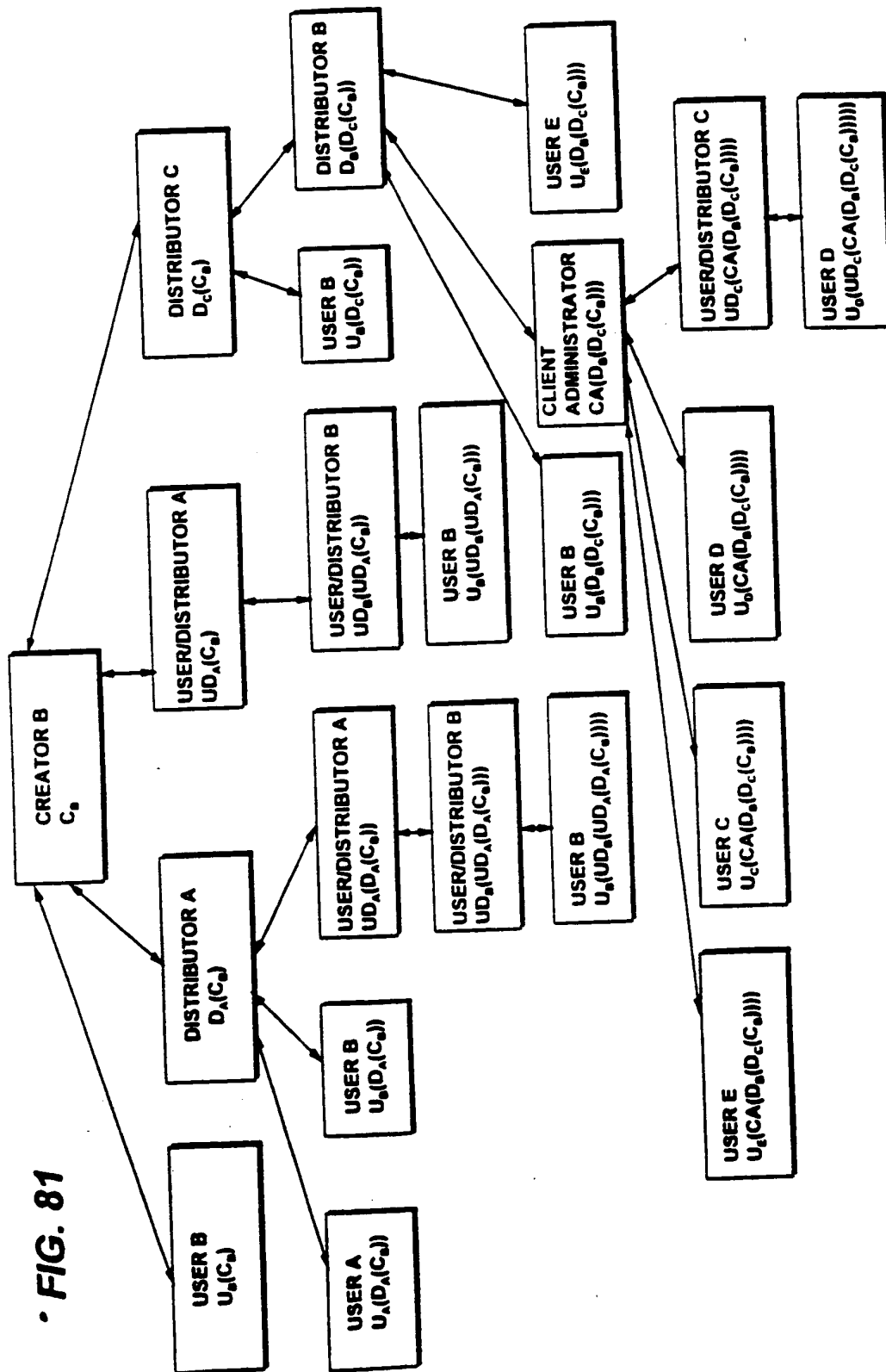
[illegible]

FIG. 82

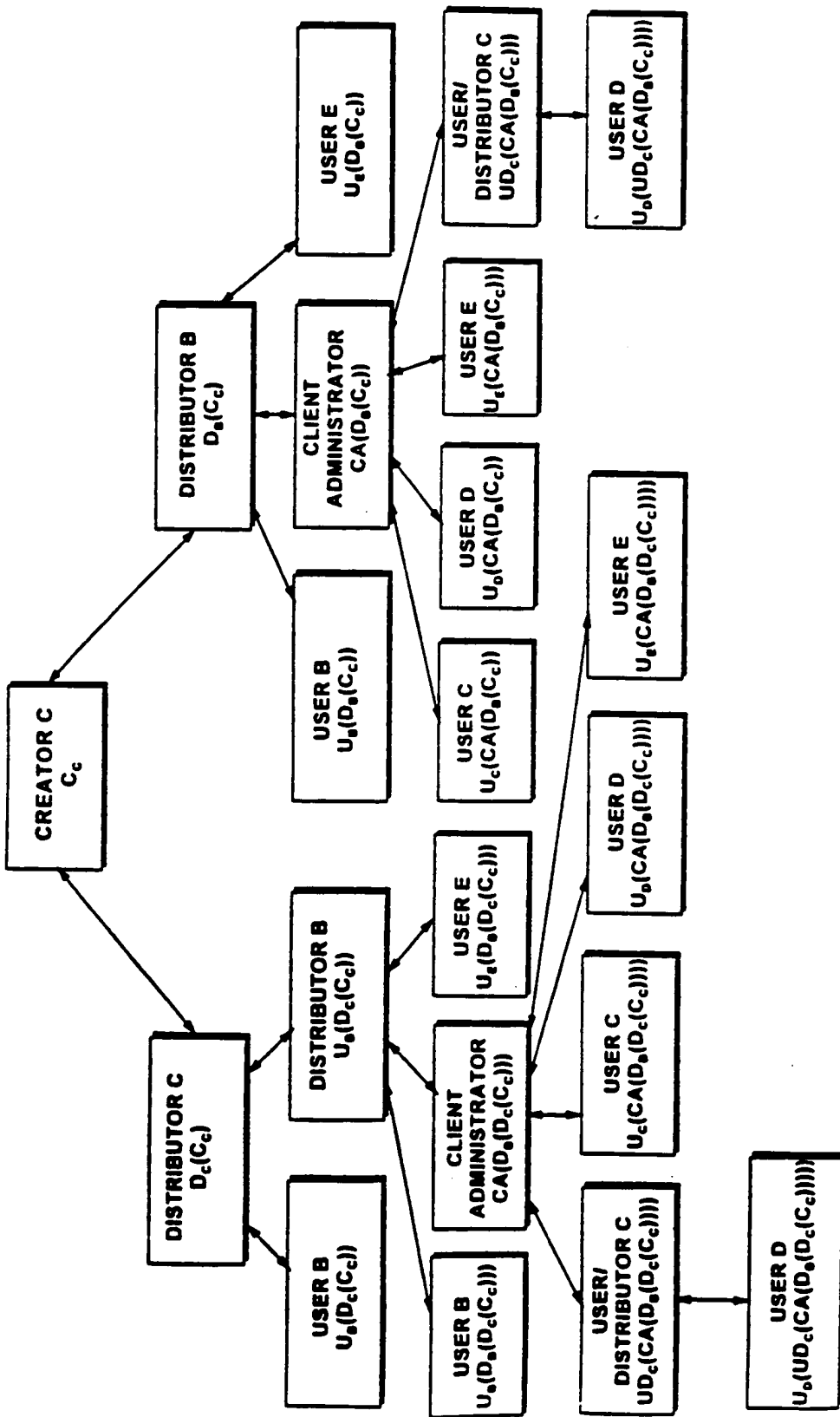


FIG. 83

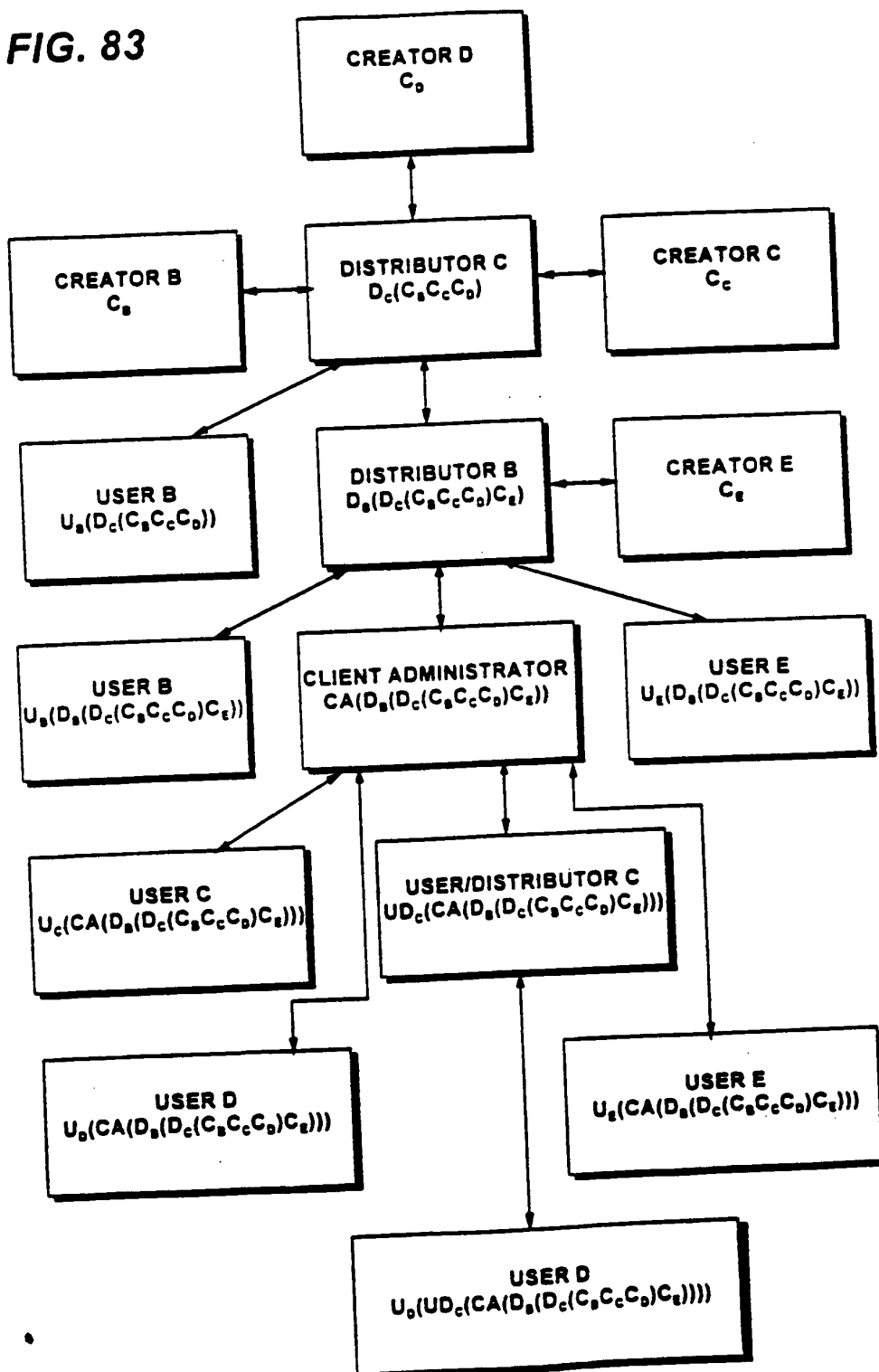


FIG. 84

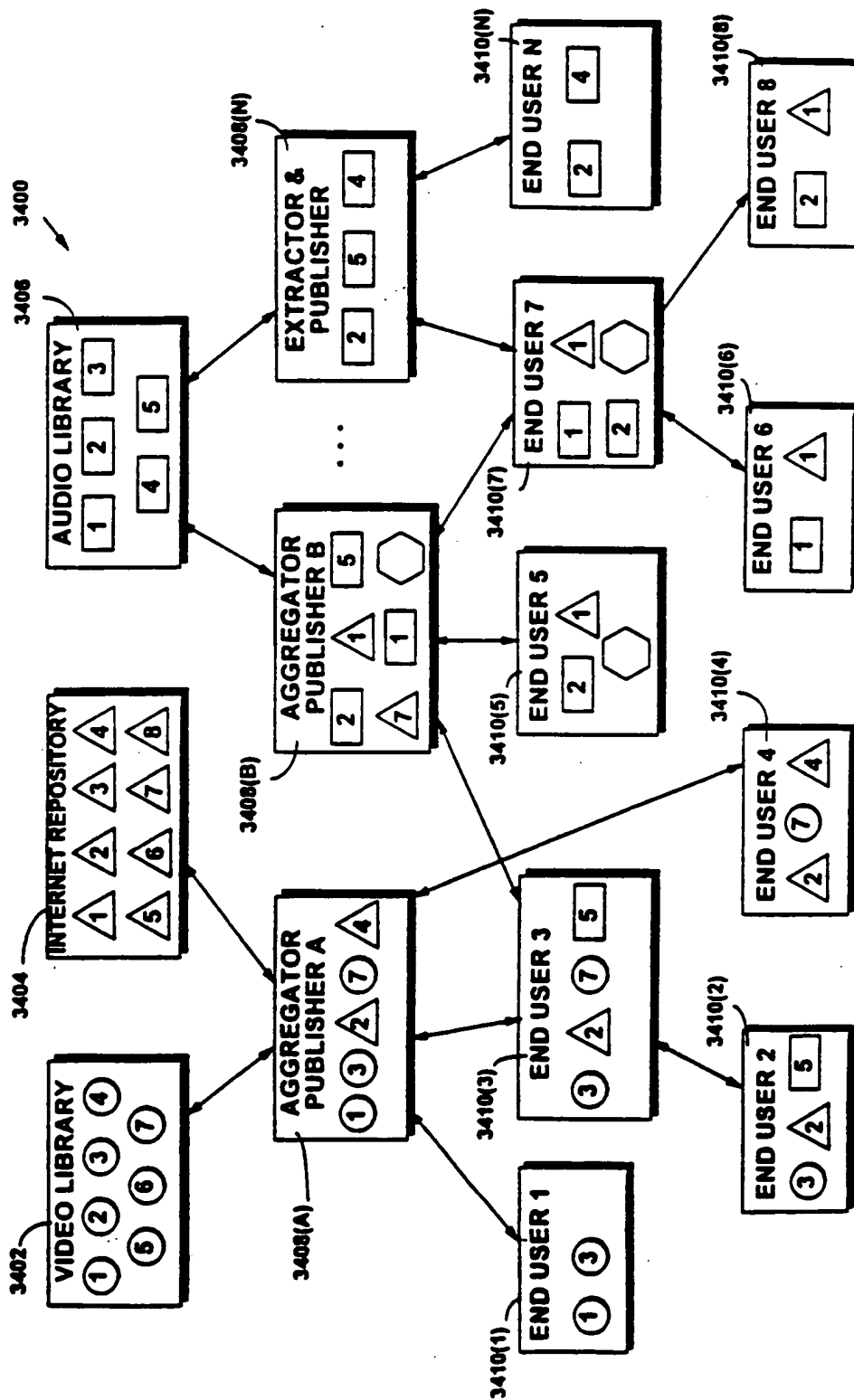


FIG. 85

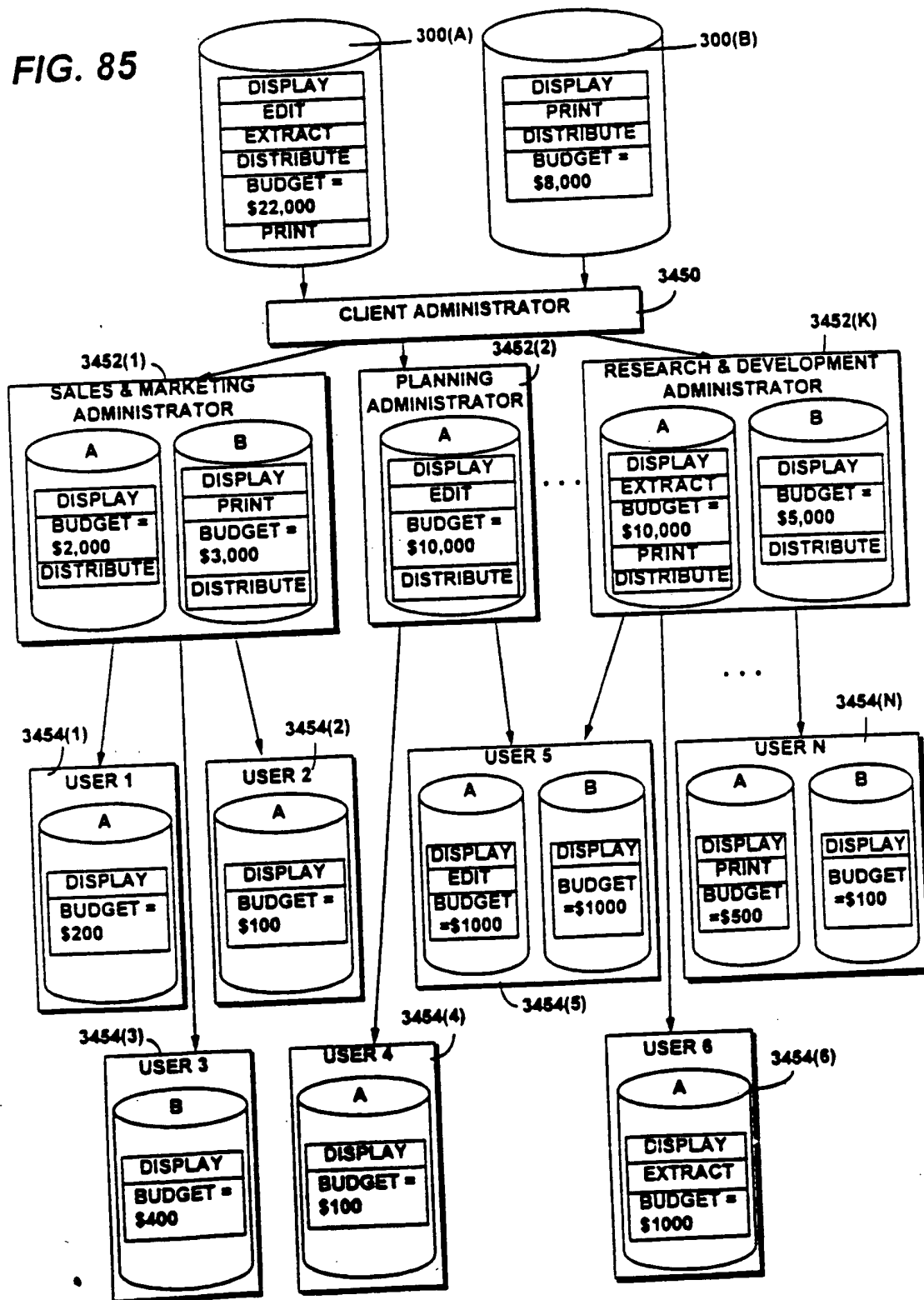


FIG. 86

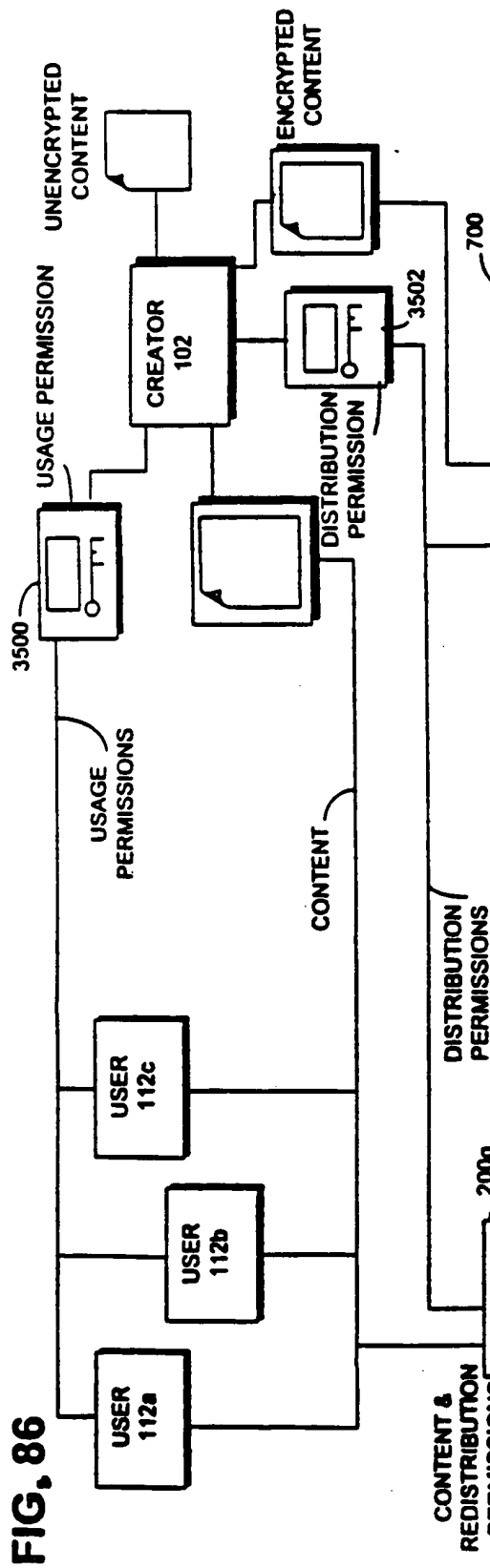
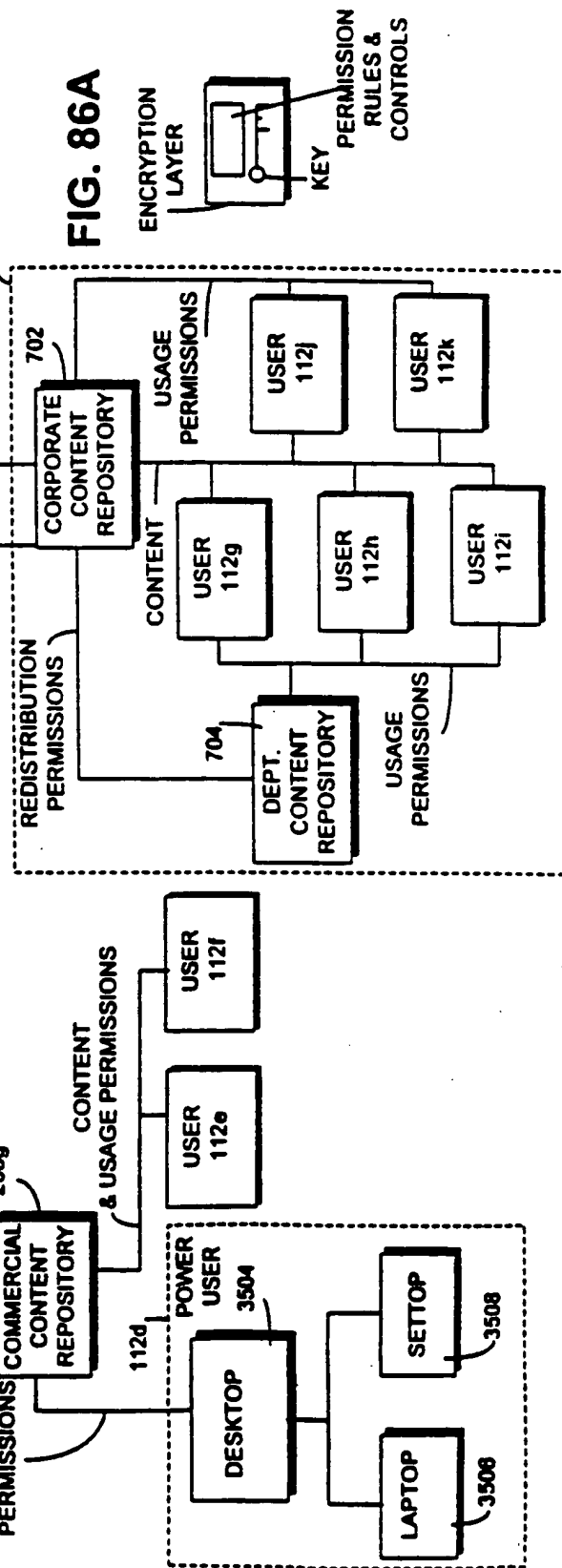


FIG. 86A



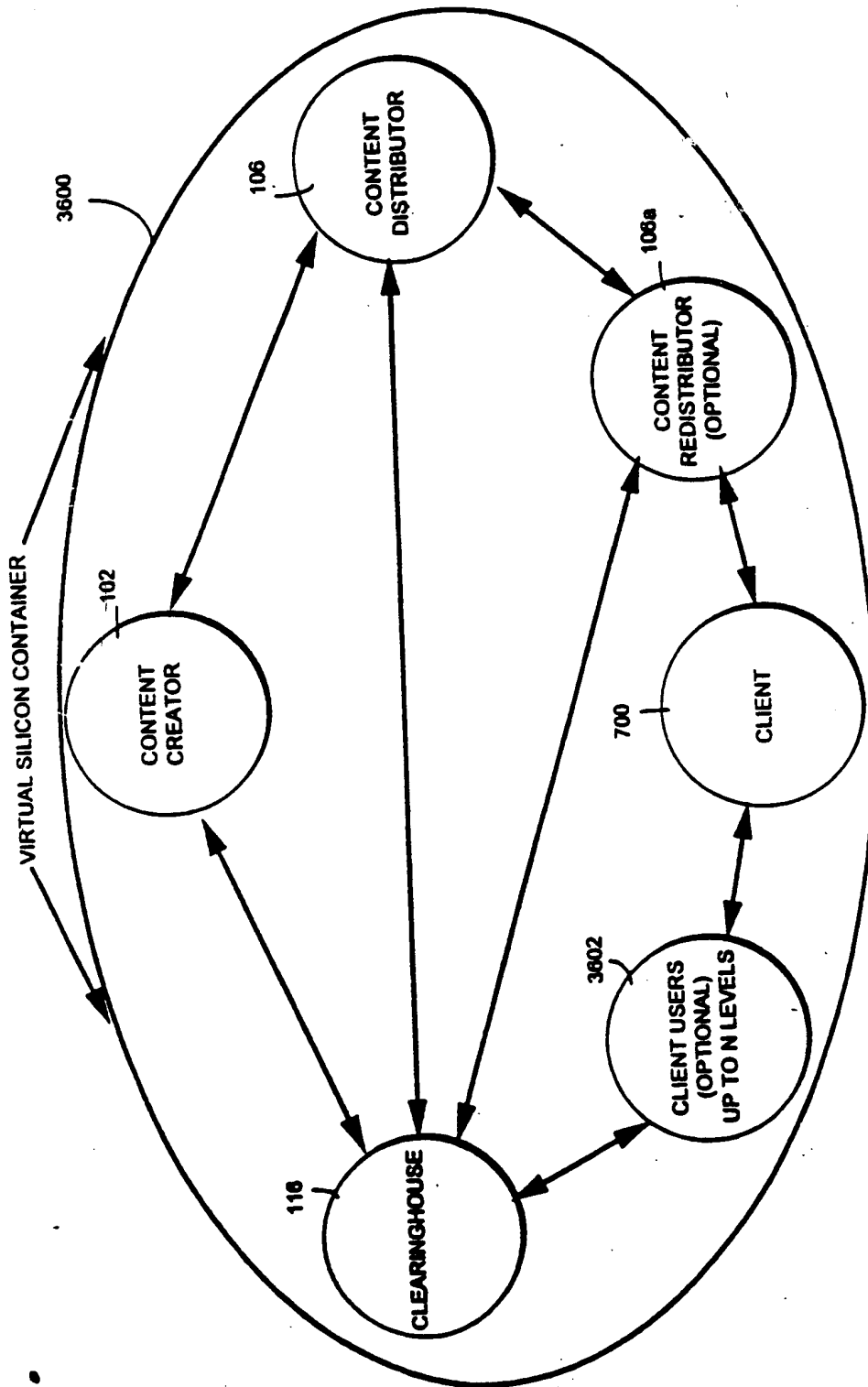


FIG. 87